State of Hawaii



Department of Education

Adequacy Funding Study

March 14, 2005

Table of Contents

- 1. Executive Summary
 - Objective
 - Methodology
 - Findings
 - Phased Implementation
 - Recommended Use of Funds
 - Increased Funding per Student
 - Next Steps
- 2. Baseline School Models
 - Introduction and Approach
 - Elementary
 - Middle
 - High
- 3. Adequate School Models
 - Introduction and Approach
 - Elementary
 - Middle
 - High
- 4. Reference Guide
 - Introduction
 - Adequacy Interventions
 - Rationale for each Adequacy Intervention and Potential Effects on Student Learning
 - Adequacy Factors by School Level
 - Phased Implementation Plan
 - Special Case of Combined and Charter Schools
 - How to Use The Models
 - References
- 5. Appendix
 - Defining an Adequate Education for the State of Hawaii



Adequacy Funding Study

Executive Summary

Prepared for

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State of Hawaii

March 14, 2005

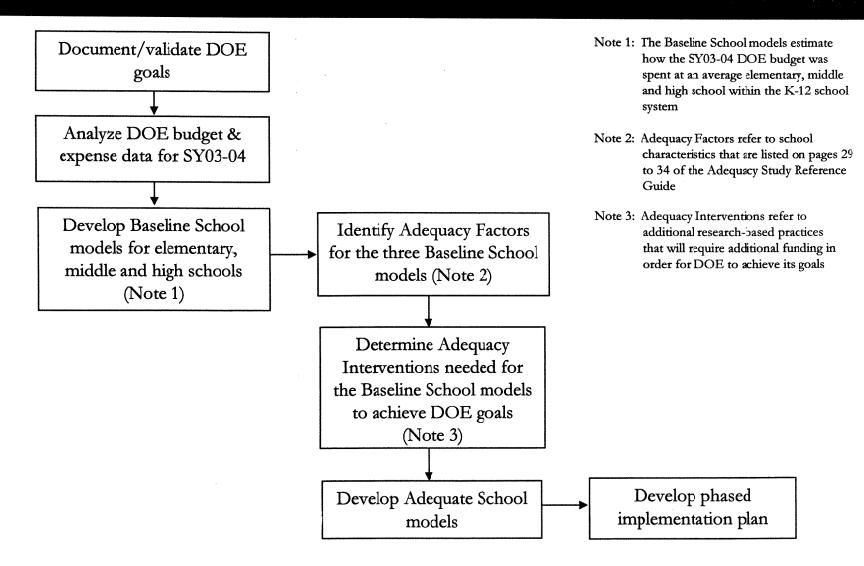
Contents

- Objective
- Methodology
- Findings
- Phased Implementation
- Recommended Use Of Funds
- Increased Funding Per Student
- Next Steps

Objective

Develop an adequacy funding model that can be used as a tool for determining the level of funding required to support the vision and goals of the State of Hawaii Department of Education (DOE) and Board of Education (BOE)

Methodology



Findings

- DOE's funding needs to increase by \$278 million
- Included in the above amount is \$25 million that pertains to combined and charter schools*

Comparison between Adequate and Baseline Funding Levels

	Number of Students	Baseline	Adequate	Budget Difference	% Difference
Elementary Schools	88,482	\$ 783,659,538	\$ 942,540,036	\$ 158,880,498	20,3%
Middle Schools	30,752	\$ 246,921,728	\$ 282,088,419	\$ 35,166,691	14.2%
High Schools	47,259	\$ 400,869,372	\$ 459,698,418	\$ 58,829,046	14.7%
Regular School Cost	166,493	\$ 1,431,450,637	\$ 1,684,326,873	\$ 252,876,235	17.7%
Combined and Charter Schools*	15,841	\$ 139,466,275	\$ 164,129,427	\$ 24,663,152	17.7%
Debt Service		\$ 98,933,822	\$ 98,933,822	\$ •	0.0%
Total School Cost	182,334	\$ 1,669,850,734	\$ 1,947,390,122	\$ 277,539,388	16.6%

^{*}Due to data limitations and time constraints, the Combined and Charter Schools category has not been analyzed in detail (please refer to page 39 of the reference guide for a suggested approach). However, to maintain parity with regular schools, it is recommended that the funding for the Combined and Charter Schools be increased at the same overall rate as regular schools

Phased Implementation Schedule of Incremental Costs

 Given the challenges associated with increasing the DOE budget by \$278 million in one year, a phased implementation is recommended

Costs by School Type (\$ million)									
	Year 1	Year 2	Year 3	Year 4	Year 5	Total			
Elementary Schools	33	39	33	31	23	159			
Middle Schools	10	12	13			35			
High Schools	15	17	17	10		59			
Combined and Charter Schools	5	5	5	5	5	25			
Total	64	73	67	46	28	278			

Recommended Use Of Funds Elementary Schools

Year	Intervention Program Categories*	Program Cost (\$ million)
	Positive Behavioral Support (PBS) System (improve discipline, classroom communication)	15.7
Year 1		
	Mentor teachers who are new to the profession	1.5
Vear 2	Year 2 Targeted reading and math programs using research-validated methods in grades 1-3 Teacher leadership development program (teaming, instructional improvement)	
rear z		
	Increase tutoring in reading and math in grades 4-5	18.4
Year 3	Instructional improvement coordinators to organize and conduct professional development on a range of issues and to coach teachers	10.2
	Computer-assisted instructional labs and workstations	14.0
Year 4	Additional training for teachers to gain specific knowledge and skills that improve their ability to teach reading and math to students not meeting standard	13.1
Year 5	Additional support for high-needs special education students to meet NCLB standards	13.7
rear 5	Intensive language acquisition program for ESLL students by reducing student-teacher ratio	5.1
Pro-Rata	Program support cost to implement interventions	20.4
Centralized	Intervention costs at the DOE central administration	3.0
	Tctal	158.9

^{*} Please refer to pages 9 to 28 of the reference guide for additional information on the interventions

Recommended Use Of Funds Middle Schools

Year	Intervention Program Categories	Program Cost (\$ million)				
	Positive Behavioral Support (PBS) System (improve discipline, classroom communication)	5.5				
Year 1	Year 1 Mentors teachers who are new to the profession					
	Campus security increased to improve students' sense of safety and well-being	2.2				
	Create "default core" curriculum into which all students are enrolled unless they opt out	8.2				
Year 2	Closely articulate middle school and high school mathematics curriculum, so that all students progress at an appropriate rate and that all are placed properly when they enter high school	1.0				
	Teacher leadership development program (teaming, instructional improvement)					
	Reading program focused on informational texts (e.g., textbooks), charts, graphs, diagrams, data arrays, and reading across the curriculum	3.1				
Year 3	Instructional improvement coordinators to organize and conduct professional development on a range of issues and to coach teachers	3.1				
	Improve counseling services at the middle level to help diagnose students with out-of- classroom problems that are preventing them from meeting standards	4.1				
	Small learning communities	1.2				
Pro-Rata	Program support cost to implement interventions	4.5				
Centralized	Intervention costs at the DOE central administration	1.0				
	Total	35.2				

Recommended Use Of Funds High Schools

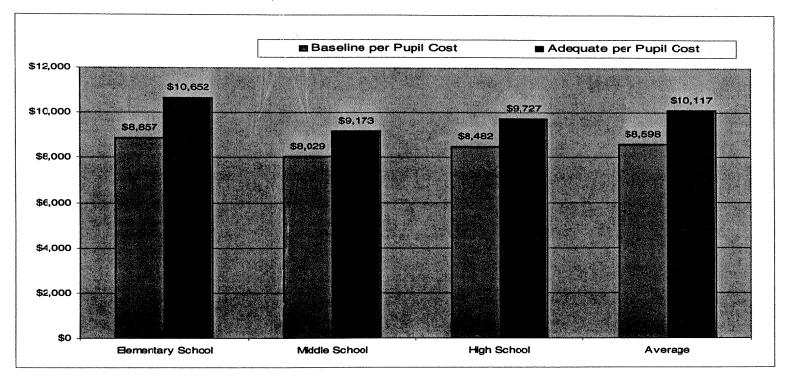
Year	Intervention Program Categories	Program Cost (\$ million)
	Positive Behavioral Support (PBS) System (improve discipline, classroom communication)	8.4
Year 1	Campus security increased to improve students' sense of safety and well-being	3.0
	Mentors teachers who are new to the profession	0.8
Voor	Small learning communities, including career academies	13.2
rear 2	Year 2 Teacher leadership development program (teaming, instructional improvement)	
	Instructional improvement coordinators to organize and conduct professional development on a range of issues and to coach teachers	5.5
Year 3	Community-based internships and student-run businesses	2.8
	Reading program focused on informational texts (e.g., textbooks), charts, graphs, diagrams, data arrays, and reading across the curriculum	6.5
	Increased student writing, including multiple 5-page research papers	2.4
Year 4	Increase Advanced Placement enrollment and pass-rate on AP examinations	4.3
	Postsecondary options and dual enrollment program	1.8
Pro-Rata	Program support cost to implement interventions	7.5
Centralized	Intervention costs at the DOE central administration	1.6
	Total	58.9

Recommended Use Of Funds Combined and Charter Schools

- Combined schools are unique in composition because there is significant variability in the characteristics of the student population at each school
- Additional analysis is required to determine which interventions are appropriate for each combined school. As examples:
 - The "advanced placement" and "post-secondary enrollment option" interventions are specific to combined schools that span up to the high school level
 - The "small learning communities" intervention may not be appropriate for small combined schools that span middle and high school levels, and have student population less than 700
- Charter schools, by law, have autonomy on the use of their funds. Hence, DOE cannot mandate specific interventions at these schools

Increased Funding Per Student

 At the Adequate Funding level, DOE's average cost per student would increase from \$8,598* to \$10,117 - a 17.7% increase over SY03-04



^{*} Excludes education-related expenditures incurred by other State agencies

Next Steps

- Develop a communication plan to share study findings with various stakeholders
- Create a commission that will be responsible for updating the adequacy models

Next Steps Communicating with various stakeholders

Communication Type Stakeholders	Pamphlet*	Executive Summary (this presentation)	Models (Excel models)	Reference Guide (Word document)
DOE Administration	√	✓	✓	✓
CASs and Principals	✓	✓	✓	✓
Educators and Public	✓			
Governor's office		✓	✓	✓
Legislators		✓		
Legislative Staff		✓	✓	✓

^{*} Three-fold flyer that includes the following information: (1) Purpose of the study (2) Results (3) Key interventions (4) Web address for the Executive Summary (5) Contact person who can address questions/queries

Next Steps Create a commission

- Non-partisan commission consisting of leading citizens from non-educational sectors and respected former educators
 - Create sub-committees focusing on different aspects of the adequacy funding implementation
 - Update the model annually
 - Update figures, interventions
 - Oversee development of alternative model schools
 - Redesigned/restructured high school
 - Combined school
 - High-poverty school
 - Define performance goals for different levels of funding
 - Communicate with various stakeholders

Introduction and Approach - Baseline School Models

The adequacy process is designed to determine how education can best be organized and conducted in order to achieve stated goals.

- The first step is to identify the goals the system is seeking to achieve. This was done by examining existing legislation and policy at the state and federal levels that define the purposes and goals of education in the state (please see Appendix)
- Next, the "Baseline School" Models are developed. These show what schools look like when the state education budget is distributed out into a model elementary, middle, and high school. These schools contain all the elements of an actual school teachers, support staff, administrators, supplies, computers—in short, everything it takes to operate a school. In addition, costs that spread across the entire system, such as facilities and transportation; some special education programs; maintenance; and centralized curriculum, professional development and centralized administration are allocated across all the three models on a per pupil basis.
- The Baseline Schools reflect averages of all schools at each level in terms of the number of students they enroll, the socioeconomic status of their students, the percentage of special education and English language learner students, the average experience of the teaching staff, and other factors relevant to the school's organization and functioning. These assumptions about the Baseline Schools are important because they help determine the changes that will be necessary to enable more students to achieve state goals.
- As a result of this process, the three model schools demonstrate the capabilities of the current schools to provide educational programs. The fiscal information to construct to the Baseline Schools was obtained from DOE school year 2003-2004 expenses by object code and other expenditure-related sources.
- The Baseline Schools demonstrate an overall ratio of students to core instructional staff of 22.5:1 at the elementary level, 21.8:1 at the middle school level, and 21.7:1 at the high school level. The ratio of students to all certificated staff, which includes regular and special education teachers, librarians, and counseling staff, is 15.5:1 at the elementary level, 17.2:1 at the middle school level, and 15.8:1 at the high school level.
- The total costs of the Baseline Schools are \$784 million for the Elementary School Baseline, \$247 million for the Middle School Baseline, and \$401 million for the High School Baseline.
- The total estimated costs associated with the Baseline School Models were within 0.02% of the actual SY03-04 DOE budget (please see Table I)

The following pages show the detailed Baseline Funding Models at the elementary, middle and high school levels.

Table I: Comparison of Baseline School Model Estimates to Actual SY03-04 Budget

School Type	Number of Students	Projected Budget	Difference (% of Budget)
Baseline Elementary School	88,482	\$ 783,659,538	
Baseline Middle School	30,752	\$ 246,921,728	
Baseline High School	47,259	\$ 400,869,372	
Regular School Cost	166,493	\$ 1,431,450,637	
Combined & Charter Schools Budget (SY03-04)	15,841	\$ 139,466,275	
Debt Service		\$ 98,933,822	
Total School Cost	1 82,334	\$ 1,669,850,734	
DOE Budget (SY2003-2004)		\$ 1,670,198,340	
Difference		\$ (347,606)	-0.02%

Model 1: Baseline Elementary School - 527 Students

Program Element	Component	FTE	Component cost (SY2003-04)	Per Pupil Cost	Explanation/Assumptions	Comments
Student enrollment Teacher salary Principal salary Vice principal salary Fringe benefits rate	\$27 \$46,321 \$70,534 \$55,178		< Model Inpu	ıts.	Average of regular elementary schools Average salary 2003-04 Average salary 2003-04 Average salary 2003-04 Employer payroll taxes, employer contribution,	From enrollment data received from DOE From salary by levels file From salary by levels file From salary by levels file Benefits rate per DOE
Instructional staff	Core instructional staff	20.4	1,430,456	\$ 2,714	and health benefits Includes average salaries and fringe benefits	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Student services coordinator, Counselor, Librarian, High risk counselor, Article VI teacher, Litoracy teacher	4.6	282,482	\$ 536	Schools choose staff to best meet their specific needs. Average salaries and fringe benefits	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Special education staffing	5.9	358,829	\$ 681	Includes average salaries and fringe benefits	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Substitute teachers for general instruction		66,666		includes salary plus benefits	Salary per superit from DOE expense file data plus payroli costs estimated at 10% From DOE expense files
Additional instructional time for students to achieve standards	Tutors Classified		33,043 6,247	\$ 12	Includes salary plus benefits Includes salaries and fringe benefits	Salary per student from DOE expense file data plus fringe benefits estimated at 32%
Instructional support staff	Other activities Principal's secretary	1.0	5,270 33,188		School-level expenses 210 days per year © \$15 per hour plus fringe benefits	From DOE expense files Salary per student from DOE expense file data plus fringe benefits of 32%. Assumes 315 per hour from Classified salary schedules. Check assumptions on number of days and hourly rate
	Educational assistants	6.0	196,923	\$ 373	185 days per year © \$14 per hour. Positions such as educational assistants and special education assistants	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Classified support staff	6.6	217,867	\$ 413	185 days per year @ \$14 per hour. Positions such as educational assistants, special education assistants, school business manager, account clerk, clerk typist, library assistant	Salary per student from Expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
Administrative accountability	Principal	1.0	89,534	\$ 170	Includes average salaries and fringe benefits	Salary per student from Expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Vice Principal	0.7	47,890	\$ 91	Includes average salaries and fringe benefits	Salary per student from Expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
Computer hardware/software	Teacher leadership Supplies and materials Hardware including student and administrative Software		326,208 11,616 27,588 3,872	\$ 22 \$ 52	Grade level and department head stipends Newsletters, report cards, student records School-level expenses Software for new computers plus upgrades	Stipends plus benefits From DOE expense files From DOE expense files From DOE expense files
	Network upkeep/upgrades		5,324	\$ 10	Upgrade and maintenance of network hardwar and software School-level expenses	
Supplies, books, materials	Texts, consumables, classroom sets Classroom materials & equipment Copyling		24,684 99,220 19,499	\$ 188	School-level expenses School-level expenses	From DOE expense files- Classroom supplies, equipment and misc. expenses From DOE expense files- allocated misc.
	Media center materials Non-athletic extracurricular		38,236 7,805	\$ 73	Library books, reference materials, subscriptions, audio visual After-school activities	expense From DOE expense files Estimate based on current practice
Extra-curricular activities Building support costs: costs distributed to	expenditures Food services Student transportation		223,448	\$ 424	Central costs plus per-student school-level expense Central Costs	From DOE expense files and school-level expense files From DOE expense files
each building	Technology services Operation, plant maintenance, and other support services		97,495 51,646 252,433	\$ 98	Computer networks, telephones, voice mail Custodian, maintenance staff, utilities, security system, warehouse, courier	From DOE expense files
	Central contracted services Centralized Special Education Centralized curriculum development,		288,834 138,074 170,748	\$ 262	Fees for professional services Self-contained schools, other students who are not served at the building level Centralized curriculum development,	From DOE expense files From DOE expense files From DOE expense files
DOE administrative	professional development, assessment Executive administration (Board of Education, Superintendent)		51,066		assessment, and other instructional improvement services Central Costs	From DOE expense files
	Business & fiscal services Personnel services Public information		30,039 27,931 3,689	\$ 53	Central Costs Central Costs Central Costs	From DOE expense files From DOE expense files From DOE expense files
Baseline Elementary School Cost			\$4,667,848	\$8,857		

Program Element	Component	FTE Component cost (SY2003-04)	Per Pupil Cost	Explanation/Assumptions	Comments
Other System-level Expenses	Debt service	285,634		Principal and interest on bonded debt is not included in "per pupil" costs above, but included in Total School Cost row in "Cost vs. Budget" tab in the Baseline School Models	From DOE expense files

Model II: Baseline Middle School - 879 Students

Program Element	Component	FTE	Component cost (SY2003-04)	P	er Pupil Cost	Explanation/Assumptions	Comments
Student enrollment	879 \$44,393	1	10.2000	<u> </u>		Average of regular middle schools Average salary 2003-04	From enrollment data received from DOE From Salary by Levels file
Teacher salary Principal salary	\$76,605		< Model Inputs			Average salary 2003-04	From Salary by Levels file
Vice Principal salary	\$58,550		< woder inpu	112	•	Average salary 2003-04	From Salary by Levels file
Fringe benefits rate	32%		10 E			Employer payroll taxes, employer contribution, and health benefits	Benefits rate per DOE
Instructional staff	Core instructional staff	40.4	2,359,276	\$	2,684	Includes average salaries and fringe benefits	Salary per student from Expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Media/Librarian	1.3	78,720	\$	90	Includes average salaries and fringe benefits	Salary per student from Expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Special education and alternative education staffing	8.0	465,372	\$	529	Includes average salaries and fringe benefits	Salary per student from Expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Oubstitute teachers for general instruction		110,929	\$	195	Includes salaries and frings benefits	Salary per student from Expense file data plus payroll costs estimated at 10%
	Counseling	1.4	82,193	\$	94	Includes average salaries and fringe benefits	Salary per student from Expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
Additional instructional time for students to achieve standards	Tutors		30,099	\$	34	Includes salaries and fringe benefits	Salary per student from Expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Classified		6,946	\$	8	Includes salaries and fringe benefits	Salary per student from Expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
Instructional improvement			9,669	\$	11	Consultants	From DOE expense file data - allocation to instructional improvement assumed
Instructional support staff	Principal's secretary	1.0	33,264	\$	38	210 days @ \$ 15 per hour plus fringe benefits	Salary per student from Expense file data plus fringe benefits of 32%. Assumes \$15 per hour from Classified salary schedules
	Educational assistants	17.5	275,519	\$	313	185 days per year @ \$14 per hour. Positions such as educational assistants and special education assistants	Salary per student from Expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Classified support staff	22.6	355,396	\$	404	185 days per year @ \$14 per hour. Positions such as school business manager, account clerk, clerk typist, library assistant	Salary per student from Expense file data plus fringe benefits of 32%. Assumes \$14 per hour from Classified salary schedules
Administrative accountability	Principal	1.0	104,188	\$	119	Salary and benefits average for middle school principals plus fringe benefits	Salary per student from Expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Vice principals	1.8	127,341	\$	145	Salary and benefits average for middle school vice principals plus fringe benefits	Salary per student from Expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Teacher leadership		382,022			Grade level and department head stipends	Stipends plus benefits
	Supplies and materials		46,482			Newsletters, report cards, student records	From DOE expense files
Computer hardware/ software	Hardware including student and administrative		48,006			School-level expenses	From DOE expense files
	Software		8,382			Software for new computers plus upgrades	From DOE expense files
	Network upkeep /upgrades		14,478	\$	16	Upgrade and maintenance of network hardware and software	From DOE expense files
Supplies, books,	Texts, consumables, classroom sets		31,242	\$	36	School-level expenses	From DOE expense flies
materials	Classroom materials, all equipment, supplies		108,204		123	School-level expenses	From DOE expense files - Classroom supplies, equipment and misc. expenses
	Copying Modio genter materials		32,523		_	School-level expenses Library books, reference materials,	From DOE expense files - allocated misc. expenses From DOE expense files
	Media center materials		28,194			subscriptions, audio visual Club sports, after-school activities	Estimate
Extra-curricular activities	Non-athletic extracurricular expenditures		17,053				
Building support costs: costs distributed to each building	Food services Student transportation		435,984 143,277		163	Central costs plus per-student school- level expense Central costs plus per-student school-	
	Technology services		86,142		98	based exp ense Computer networks, telephones, voice mail	From DOE expense files
	Operation, plant maintenance, and other support services		443,895	\$		Custodian, maintenance staff, utilities, security system, warehouse, courier	From DOE expense files

Program Element	Component	FIE	Component cost (SY2003-04)	r Pupil Cost	Explanation/Assumptions	Comments
	Central contracted services		481,755	\$ 548	Fees for professional services	From DOE expense files
	Contralized special education		230,298	\$ 262	Solf contained schools, other students who are not served at the building level	From DOE expense files
	Centralized curriculum development, professional development, accessment		284,796	\$ 324	Centralized curriculum development, assessment, and other instructional improvement services	From DOE expense files
DOE administrative support	Executive administration (Board of Education, Superintendent)		85,263	\$ 97	Central costs	From DOE expense files
	Business & fiscal services		50,103	\$ 57	Central costs	From DOE expense files
	Personnel services		46,587	\$ 53	Central costs	From DOE expense files
	Public information		6,153	\$ 7	Central costs	From DOE expense files
Baseline Middle School Cost			\$7,057,751	\$8,029		

Other System-level Debt service	476,418 \$ 542	Principal and interest on bonded debt	From DOE expense files
Expenses		is not included in "per pupil" costs	
Lypeness		above, but included in Total School	
		Cost row in "Cost vs. Budget" tab in	
		the Baseline School Models	

Model III: Baseline High School - 1,477 Students

Program Element	Component	FTE	Component cost		r Pupil	Explanation/Assumptions	Comments
			(SY2003-04)		Cost		
Student enrollment	1,477					Average of regular high schools	From enrollment data received from DOE
Teacher salary	\$43,440 \$86,537					Average salary 2003-04 Average salary 2003-04	From salary by levels file From salary by levels file
Principal salary Vice principal salary	\$61,216		< Model Inputs			Average salary 2003-04	From salary by levels file
Fringe benefits rate	32%					Employer payroli taxes, employer contribution, and health benefits	Benefits rate per DOE
Instructional staff	English, math, science, social sciences, second languages, the arts, electives	68.0	3,890,418	\$	2,634	Includes average salaries and fringe benefits at 32%	Salary per student from Expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Media/Librarian	2.0	116,713	\$	79	Includes average salaries and fringe benefits at 32%	Salary per student from Expense file data plus fringe henefits of 32%. FTE calculated by dividing total expense by average salary
	Special education and alternative education staffing	15.6	890,906	\$	603	Includes average salaries and fringe benefits at 32%	Salary per student from Expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Substitute teachers for general instruction		167,344		113	10%	Salary per student from Expense file data plus payroll costs estimated at 10%
	Counseling	6.2	354,028	\$	240	32%	Salary per student from Expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Co-curricular/activities director	1.4	81,699			32%	Salary per student from Expense file data plus fringe benefits of 32%
Additional instructional time for students to	Tutors Summer school		24,371			10%	Salary per student from Expense file data plus payroll costs estimated at 10% Salary per student from Expense file data plus
achieve standards	instructional staff (Licensed and Classified)		64,192	•	43	anchodes salaries and mange benefits at 32%	Salary per student from Expense file data plus fringe benefits of 32%
Instructional improvement			32,494	5	22	Consultants	From DOE expense file data - allocation to instructional improvement assumed
Instructional support staff	Principal's secretary	1.0	41,184	\$	28	260 days ② \$ 15 per hour plus fringe benefits	Salary per student from DOE expense file data plus fringe benefits of 32%
	Educational assistants	13.7	373,480	\$	253	185 days per year @ \$14 per hour. Positions such as educational assistants and special education assistants	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Classified Support staff	28.4	881,180	6		210 days per year @ \$14 per hour. Positions such as school business manager, account clerk, clerk typist, library assistant	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
Administrative accountability	Principal	1.0	106,986	•	72	Calary and benefits average for high school principals	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Vice principals	2.8	229,535	\$		Salary and benefits average for high school vice principals	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Teacher leadership		661,371			Grade level and department head stipends	Stipends plus benefits at 32%
	Supplies and materials Hardware including student		176,960			Newsletters, report cards, student records School-level expenses	From DOE expense files From DOE expense files
Computer hardware/ software	and administrative		54,352				
	Software Network upkeep/upgrades		10,112 64,464			Software for new computers plus upgrades Upgrade and maintenance of network	From DOE expense files From OOE expense files
Supplies, books,	Texts, consumables,		63,200			hardware and software School-level expenses	From DOE expense files
materials	classroom sets Classroom materials, all		139,040			School-level expenses	From DOE expense files - Classroom
	equipment, supplies Copying		54,649	\$	37	School-level expenses	supplies, equipment and misc. expenses From DOE expense files - allocated misc.
	Media center materials		46,768	\$		Library books, reference materials, subscriptions, audio visual	From DOE expense files
Extra-curricular activities	Coaching Non-athletic extra-		94,800 35,448			Athletic directors and coordinators Club sports, after-school activities	From DOE expense files Estimate based on current practice
Building support costs:	curricular Food services		533,197	\$		Central costs plus per-student school- level expense	From DOE expense files
costs distributed to each building	Student transportation		270,291	\$	183	Central costs plus per-student school- level expense	From DOE expense files

Program Element	Component	FTE	Component cost (SY2003-04)		Pupil Cost	Explanation/Assumptions	Comments
	Technology services		144,746	\$	98	Computer networks, telephones, voice mail	From DOE expense files
	Operation, plant maintenance, and other support services		933,464	\$	632	Custodian, maintenance staff, utilities, security system, warehouse, courier	From DOE expense files
	Central contracted services		809,503	\$	548	Fees for professional services	From DOE expense files
	Centralized special education		386,974	\$	262	Self-contained schools, other students who are not served at the building level	From DOE expense files
	Centralized curriculum development, professional development, assessment		478,548	4	324	Centralized curriculum development, assessment, and other instructional improvement services	From DOE expense files
DOE administrative support	Executive administration (Board of Education, Superintendent)		143,269	\$	97	Central costs	From DOE expense files
E	Business & fiscal services		84,189	\$	57	Central costs	From DOE expense files
	Personnel services		78,281	S	53	Central costs	From DOE expense files
	Public information		10,339			Central costs	From DOE expense tiles -
Baseline High School Cost			\$12,528,493	,	\$8,482		

Other System-level	Debt service	800,534 \$	542 Principal and interest on bonded debt	From DOE expense files
			is not included in "per pupil" costs	
Expenses			above, but included in Total School	
	4.5		Cost row in "Cost vs. Budget" tab in	
			the Baseline School Models	

Introduction and Approach - Adequate School Models

The Adequacy Schools are created to calculate the changes that are needed in the Baseline Schools in order to achieve key state and federal education goals. Table II summarizes the funding increases between Baseline and Adequate Schools.

- The Adequate Schools incorporate a series of key "Adequacy Interventions." These interventions were selected because research and practice indicate that they are the most cost-effective ways of achieving DOE goals. While some interventions are substantially different from the elementary to the secondary level, others are consistent across the various Adequate Schools (please see Tables III, IV, V and VI).
- The Adequate Schools demonstrate an overall ratio of students to core instructional staff of 22.5:1 at the elementary school level, 19.4:1 at the middle school level, and 20.0:1 at the high school level. The ratio of students to all certified staff, which includes regular and special education teachers, librarians, counseling staff, and instructional improvement coaches, is 13.7:1 at the elementary school level, 14.8:1 at the middle school level, and 14.3:1 at the high school level.
- The Adequacy Interventions are focused more intensively on the Adequate Elementary School than the Adequate Middle School and Adequate High School. This is because research points to the importance of a quality elementary educational experience for all students.
 - O The Adequate Elementary School (please see Model IV) increases the amount of money spent per student on tutoring opportunities from \$63 per pupil in the Baseline Elementary School to \$271 per pupil. An additional \$115 per student is allotted to summer school specifically designed to help the lowest achievers.
 - o Spending on technology increases from \$69 to \$227 per student to provide for the inclusion of an Instructional Learning Lab.
 - o School-based funds for instructional improvement increase from \$0 under the Baseline Elementary School to \$347 per student.
 - School-based professional development in a number of specified areas increases from \$0 to \$434 per student.
 - o Teacher leadership expenditures are increased from \$619 to \$676 per student to accommodate a mentor teacher program.
 - o Extra support for English for Second Language Learners (ESLL) increases non-core instructional staff from \$536 per student to \$594.
 - o Special education staffing increases from \$681 per pupil to \$797 to provide additional support to students who need extra help to meet state standards.
 - O The additional cost statewide for the Adequacy Elementary School is approximately \$159 million, which represents an increase of just over 20% from current spending levels.
- The Adequate Middle Schools (please see Model V) increase core instructional staff from \$2,684 per student to \$3,017. These funds provide additional instructors in reading and math.

- O The amount spent on counseling increases from \$94 to \$227 per student to help keep students successfully engaged. As with the Adequate Elementary School, the Adequate Middle School increases funds spent on school-based instructional improvement, in this case from \$11 to \$111, and on school-based professional development from \$0 to \$303. Activities funded include improved reading, a behavior management program, and better articulation with the high school.
- O A mentor teacher program increases teacher leadership costs (included in "Professional training and development") from \$435 to \$462.
- O Funds are provided to create small learning communities, in the amount of \$38 per student (included in "Professional training and development").
- O Classified support staff costs increase from \$404 per student to \$474 to enhance student safety.
- The additional cost for the Adequate Middle School is approximately \$35 million, which represents an increase of just over 14% above current spending on middle schools.
- The Adequate High School (please see Model VI) has many of the same Adequacy Interventions as the Adequate Middle School, and a few unique ones.
 - O Core instructional staff increases from \$2,634 per pupil to \$2,866 to accommodate a stronger emphasis on reading, including skills to read academic materials in all subject areas.
 - O Counseling is also increased from \$240 per pupil to \$278, once again, to provide additional support to high-needs students and keep them engaged academically.
 - O A number of additional programs help students meet state goals. Writing is emphasized through a common writing requirement, and \$50 per student is provided to support this activity (included in "Professional training and development").
 - O Community-based internships help keep students in school and are funded at \$60 per student (included under "Instructional support staff" in "Classified support staff"). More students are encouraged to go on to college through an increase in Postsecondary Options and Advanced Placement programs, which receive \$130 per student to achieve these goals.
 - O The high school also funds a mentor teacher program at \$16 per student, increases campus security at \$63 per student, implements a positive behavior program to reduce classroom problems at a cost of \$178 per student, and provide funding for small learning communities in the amount of \$279 per student.
 - The additional cost for the Adequacy High School is approximately \$59 million, which represents an increase of just under 15% above current spending on high schools.
- Some Adequacy Interventions cut across all three Adequate Schools and are best considered as system-level interventions.

- O These include an increased emphasis on parent-community networking through school-based centers (\$8 per pupil), a comprehensive assessment data management system to help teachers make better decisions about the instructional needs of students (\$10 per pupil), funds to improve teacher quality by identifying high-priority academic areas and offering incentives to prospective teachers in these areas (\$10 per pupil), developing an Instructional Support System to provide support to instructional processes necessary for ensuring student learning (\$2), and professional development for building-level administrators to become leadership coaches (\$4). These system level adequacy interventions total \$34 per pupil.
- o In addition, an amount of funding equal to 15% of the costs of the Adequacy interventions in each Adequate School is allotted for additional administrative costs, reflecting the realities of implementing and managing the additional programs contained in the Adequacy Interventions.

Additional Funding Needed For the Adequate School Models

By comparing the costs of the Baseline Schools to the Adequacy Schools, it is possible to determine the funding necessary to achieve state education goals.

- The additional funding amount is determined by calculating the per pupil amounts for each of the three Adequate Schools, multiplying the per pupil amounts by the number of students statewide at the grade levels included in the Adequate Schools (minus students in Combined Schools), then totaling the costs.
- Students in Combined Schools are factored in by multiplying their numbers at each grade level by the per pupil amount from the corresponding Adequate School, then adjusting that amount based on the current difference in per pupil funding between Baseline Schools and Combined Schools.
- The total adjusted amount for students in Combined Schools is then added to the total generated from the Adequate Schools to determine the total amount needed for adequate funding to achieve state education goals.
- Based on this analysis, the State of Hawaii's K-12 budget needs to increase by approximately \$278 million (16.6%) in order to accomplish the vision and goals set forth by the DOE and BOE.
- In total, these Adequacy Interventions increase the capacity of the schools to offer an adequate education to more students an education which results in more students achieving state goals. These interventions tend to offer the greatest potential to increase the ability of schools to offer quality instructional programs for all students.

The following pages show the detailed Adequacy Funding Models at the elementary, middle and high school levels.

Table II: Comparison between Adequate and Baseline Funding Levels*

	Number of Students	Baseline	Adequate	Budget Difference	%	Difference
Elementary Schools	88,482	\$ 783,659,538	\$ 942,540,036	\$ 158,880,498		20.3%
Middle Schools	30,752	\$ 246,921,728	\$ 282,088,419	\$ 35,166,691		14.2%
High Schools	47,259	\$ 400,869,372	\$ 459,698,418	\$ 58,829,046		14.7%
Regular School Cost	166,493	\$ 1,431,450,637	\$ 1,684,326,873	\$ 2 52,876,235		17.7%
Combined and Charter Schools*	15,841	\$ 139,466,275	\$ 164,129,427	\$ 24,663,152		17.7%
Debt Service		\$ 98,933,822	\$ 98,933,822	\$	1 0414 8	0.0%
Total School Cost	182,334	\$ 1,669,850,734	\$ 1,947,390,122	\$ 277,539,388		16.6%

^{*} Analysis is based on SY03-04 budget and actual expense data

Model IV: Adequate Elementary School Model - 527 Students

Program Element	Component	FTE	Component cost		-Pupil	Explanation/Assumptions	Comments
Student enrollment	527		(SY2003-04)	, (Cost	Average of regular elementary schools	From enrollment data received from DOE
Teacher salary	\$46,321 \$70,534					Average salary 2003-04 Average salary 2003-04	From salary by levels file From salary by levels file
Principal salary Vice principal salary	\$55,178		< Model Inp	uts		Average salary 2003-04	From salary by levels file
Fringe benefits rate	32%					Employer payroll taxes, employer	Benefits rate per DOE
Instructional staff	Core instructional staff	23.4	1,430,456	l e	2,714	contribution, and health benefits Includes average salaries and fringe benefits	Salary per student from DOE expense file data
misu ucuonai stan			1,400,400	•	2,7 14		pius minge penetris of 32%. Fite calculated by dividing total expense by average salary
	Student services coordinator, Counselor, Librarian, High risk counselor. Article VI teacher, Literacy teacher, additional ESLL staff *	5.1	312,984	5	594	Add 5 ESLL staff Schools choose staff to best meet their specific needs. Average salaries and fringe benefits	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Special education staffing	6.9	419,833	\$	797	Includes additional special education teacher	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Substitute teachers for general instruction Tutors		66,666			Includes salary plus benefits	Salary per student from DOE expense file data plus payroll costs estimated at 10%
Additional instructional time for students to achieve standards	Tung		142,870	s	2/1	Audo one that per 3 students, bottom 40 % 0. students, 4 hrs/week, 30 weeks/year, training for tutors (5 days) Includes salary plus benefits	Salary per student from DOE expense file data plus fringe benefits estimated at 10%
	Classified Summer school, other activities		26,713 65,970		51 125	Includes additional classified for special education Summer school with academic focus for	Salary per student from DOE expense file data plus fringe benefits estimated at 10% Estimate cost based on best practices (proven
						students in the bottom 40% each year K-5	research base)
Instructional Improvement	School improvement coach Whole school reform reading and math teachers	3	183,014	5	347	Instructional coordinator (shared among a number of professional development activities) Train and supervise tutors	Estimated cost based on best practices
instructional support	Principal's secretary	1.0	33,188	\$	63	210 days per year © \$15 per hour plus fringe benefits	Salary per student from DOE expense file data plus fringe benefits of 32%. Assumes \$15 per hour from Classified salary schedules
	Educational assistants	6.0	196,487	\$	373	185 days per year @ \$14 per hour. Positions such as educational assistants and special education assistants	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Classified support staff	6.6	217,867	\$		185 days per year @ \$14 per hour. Positions such as educational assistants, special ed assistants, school business manager, account clerk, clerk typist, library assistant	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
Administrative accountability	Principal	1.0	89,534	\$	170	Includes average salaries and fringe benefits	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Vice Principal	0.7	47,890	\$	91	includes average salaries and fringe benefits	Salary per student from DOE expense file data plus frings benefits of 32%. FTF calculated by dividing total expense by average salary
	Teacher leadership		356,208		676	Grade level and department head stipends Teacher leadership development program	Stipends plus benefits
	Supplies and materials		11,616	5	22	Newsletters, report cards, student records	From DOE expense files
Computer	Hardware including student and administrative		27,588	\$	52	School-level expenses	From DOE expense files
	Software		3,872	\$	7	Software for new computers plus upgrades	From DOE expense files
	Computer-assisted Instruction lab		83,021	5	158	Lease costs for instructional learning system Computer lab paraprofessional	Estimated cost based on best practices (proven research base)
	Network upkeep/upgrades		5,324	\$		Upgrade and maintenance of network hardware and software	From DOE expense files
Supplies, hooks,	Texts, consumables, classroom sets		24.684	S		School-level expenses	From DOE expense files
materials	Classroom materials & equipment		99,220	\$	188	School-level expenses	From DOE expense files - classroom supplies,
	Copying		19,499		37	School-level expenses	equipment and misc. expenses From DOE expense files - allocated misc espense
	Media center materiala		38,236	\$		Library books, reference materials, subscriptions, audio visual	From DOE expense files
Extra-curricular activities	Selection and the selection of the selec		7,805	\$	20-0-2000 November 2-4	After-school programs	Estimated cost based on best practices
Professional training & development	Relisase time, materials, travel		228,700			Additional training for teachers to gain epocific knewledge and skills that improve their ability to teach reading and math to students not meeting standard. Mentor teachers for teachers new to the profession Positive Behavioral Support training and implementation	Assumes centralized staff development
-aaa -epp	Food services		223,448	\$	424	Central costs plus per-student school-level	From DOE expense files
costs distributed to each	Student transportation		97,495	\$		expense Central Costs	From DOE expense files
building	echnology services		51,646		98	Computer networks, telephones, voice mail	From DOE expense files

Program Element	Component	FTE	Component cost (SY2003-04)		r-Pupil Cost	Explanation/Assumptions	Comments
	Operation, plant maintenance, and other support services		252,433	\$		Custodian, maintenance staff, utilities, security system, warehouse, courler	From DOE expense files and school-level detail files
	Central contracted services		288,834	\$	548	Fees for professional services	From DOE expense files
17. 17. 17. 17. 17. 17. 17. 17. 17. 17.	Centralized special education		138,074	8	262	Self-contained schools, other students who are not served at the building level	From DOE expense files
	Centralized curriculum development, professional development, assessment		170,748	\$	324	Centralized curriculum development, assessment, and other instructional improvement services	From DOE expense files
DOE administrative	Executive administration (Board of Education, Superintendent)		51,066	\$	97	Central costs	From DOE expense files
support	Business & fiscal services		30,039	\$	57	Central costs	From DOE expense files
	Personnel services		27,931	\$	53	Central costs	From DOE expense files
	Public information		3,689	\$	7	Central costs	From DOE expense files
	Program support cost to implement		121,085	\$	230	Administrative support	Estimated cost based on best practices
Adequate Elementary	■ BCC 57 (1994)			(2000/09)			
School-level Cost			\$ 5,595,732	\$	10,618		
DOE System-level Intervention Cost			\$ 18,049	\$	34		
Total Adequate Elementary School Cost			\$ 5,613,781	\$	10,652	Includes all elements and compon interventions below	ents above, and system-level
OOE System-level	Parent Community Networking Center (PCNC) expansion and focus		FRR,474	\$	8	Parent involvement - per DOE recommendat	ion
apportioned to Adequate Elementary Schools	on academic support Assessment data management system		873,494	\$	10	Centralized support, Training in the use of de	ata by teachers - per DOE recommendation
Identify areas of teacher shortages in high-priority academic areas and offer incentives to prospective teachers to become certified in these areas Development of an instructional support system to support the instructional processes and functions necessary for ensuring shudent learning			910,126	\$	10	Incentives to recruit out-of-state teachers, in tuition support for teacher licensure requiren recommendation	state teachers, support services personnel, i eents (1/4 of estimated need) - per DOE
			181,978	*	2	Per DOE recommendation	
building-level	Professional development for building-level administrators to become leadership coaches		376.330	Š	4	Per DOE recommendation	
otal System-level ntervention Cost			3,030,401	\$	34		
Other System-level Expenses	Debt service		285,634	s		Principal and interest on bonded debt is not included in "per pupil" costs above, but included in the Total School Cost row in "Covs. Budget" tab in Adequate School Models	From DOE expense files

^{*} Interventions and related costs have been italicized and highlighted in blue

Model V: Adequate Middle School Model - 879 Students

Program Element	Component	FTE	Component cost (SY2003-04)		Pupil ost	Explanation/Assumptions	Commerats
Student enrollment	879		(512000 04)	1	<u>.</u>	Average of regular middle schools	From enrollment data received from DOE
Teacher salary	\$44,393					Average salary 2003-04	From salary by levels file
Principal salary	\$76,605 \$58,550		< Model In	puts	1	Average salary 2003-04 Average salary 2003-04	From salary by levels file From salary by levels file
Vice Principal salary Fringe benefits rate	32%					Employer payroll taxes, employer contribution, and health benefits	Benefits rate per DOE
Instructional staff	Core instructional staff *	45.4	2,651,604	s	3,017	Reading teacher 4 additional core academic staff	Salary per student from DOE expense file data plus fringe henefits of 32%. FTF calculated by dividing total expense by average salary
	Media/Librarian	1.3	78,720	\$	90	Includes average salaries and fringe benefits	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Special education and alternative education staffing	8.0	465,372	s	529	Includes average salaries and fringe benefits	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Substitute teachers for general instruction		118,020	6	135	Includes salaries and frings benefits	Salary per sturtant from DOF expense file data plus payroll costs estimated at 10%
	Counseling	3.4	199,124	s	227	2 additional counselors to bring pupil:counselor ratio to 250:1	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by avverage salary
Additional instructional time for students to achieve standards	Tutors		30,099	\$	34	Includes salaries and fringe benefits	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Classified		6,946	\$	8	Includes salaries and fringe benefits	Salary per student from DOE expense file data plue fringe benefits of 32%. FTE calculated by dividing total expense by average salary
Instructional improvement	Instructional improvement coodinator conducts professional development		97,367	s	111	Consultarits Instructional improvement coaches	From DOE expense file data - allocation to instructional improvement assumed
Instructional support staff	Principal's secretary	1.0	33,264	\$	38	210 days @ \$ 15 per hour plus fringe benefits	Salary per student from DOE expense file data plus fringe benefits of 32%. Assumes \$15 per hour from Classified salary schedules
	Educational assistants	17.5	275,519	\$	313	185 days per year @ \$14 per hour. Positions such as educational assistants and special education assistants	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Classified support staff	26.5	416,795	\$	474	185 days per year @ \$14 per hour. Positions such as school business manager, account clerk, clerk typist, library assistant, campus security staff	Salary per student from DOE expense file data plus fringe benefits of 32%. Assumes \$14 per hour from Classified salary schedules
Administrative accountability	Principal	1.0	104,188	\$	119	Salary and benefits average for middle school principals plus fringe benefits	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Vice principals	1.8	127,341	\$	145	Salary and benefits average for middle school vice principals plus tringe benefits	Salary per student from DOE expense file data plus tringe benefits of 32%. File calculated by dividing total expense by average salary
	Teacher leadership		405,722	ş	462	Grade level and department head stipends Teacher leadership development	Stipends plus benefits
	Supplies and materials Hardware including student and		46,482			Newsletters, report cards, student records School-level expenses	From DOE expense files From DOE expense files
Computer hardware/ software	administrative Software		48,006 8,382		10	Software for new computers plus upgrades	
	Network upkeep/upgrades		14,478	\$	16	Upgrade and maintenance of network hardware and software	From DOE expense files
Supplies, books,	Texts, consumables, classroom sets		31,242		36	School-level expenses	From DOE expense files
	Clasercom materiale, all equipment, supplies Copying		108,204 32,523		120	School-level expenses School-level expenses	From DOE expense files - classroom supplies, equipment and misc, expenses From DOE expense files - allocated misc.
	Media center materials		28,194		32	Library books, reference materials,	expenses From DOE expense flies
Extra-curricular activities	Non-athletic extracurricular expenditures		17,053	\$	19	subscriptions, audio visual Club sports, after school activities	Estimated cost based on beast practices
Professional training and development	Mentor teachers, reading teachers, professional development, Positive behavioral support program		265,962	\$		Reading program, professional development Mentor teachers Positive behavioral support program Curricululm articulation	Assumes centralized staff development
Building support costs:	Food services		435,984	\$	496	Curriculum aruculation Central costs plus per-student school-level expense	From DOE expense files
costs distributed to each building	Student transportation Technology services		143,277 86,142		163	Central costs plus per-student school-level oxponed Computer networks, telephones, voice mail	From DOE expense files From DOE expense files
	Operation, plant maintenance, and		443,895			Custodian, maintenance staff, utilities,	From DOE expense files
	other support services Central contracted services		481,755	\$	548	security system, warehouse, courier Fees for professional services	From DOE expense tiles

Adequate Middle School, Page 1 of 2

Program Element	Component	FTE	Component cost (SY2003-04)		-Pupil Cost	Explanation/Assumptions	Comments
	Centralized special education		230,298	S	262	Self-contained schools, other students who are not served at the building level	From DOE expense files
	Centralized curriculum development, professional development, assessment		284,796	s	324	Centralized curriculum development, assessment, and other instructional improvement services	From DOE expense files
OOE administrative	Executive administration (Board of Education, Superintendent)		85,263	\$	97	Central costs	From DOE expense files
support	Business & Fiscal Services		50,103	8	57	Central costs	From DOE expense files
	Personnel Services	14	46,587	\$	53	Central costs	From DOE expense files
	Public Information	7.5	6,153	\$	7	Central costs	From DOE expense files
	Program support cost to implement		127,203	5	145	Administrative Support	Estimated cost based on best practices
Adequate Middle School evel Cost	· ·		\$ 8,032,972	\$	9,139		
DOE System-level Intervention Cost			\$ 30,105	\$	34		
Total Adequate Middle						includes all elements and compor	nents above, and system-level
School Cost			\$ 8,063,076	\$	9,173	interventions below	· •
DOE System-level	Parent Community Networking Center		239,280	\$	8	Parent involvement - per DOE recommenda	ation

Interventions apportioned to Adequate Middle	Parent Community Networking Center (PCNC) expansion and focus on academia support	239,280		8	Parent involvement - per DOE recommendation
Schools	Assessment data management system	303,584	\$		Centralized support, and Training in the use of data by Teachers - per DOE recommendation
	Identify areas of teacher shortages in high-priority academic areas and offer incentives to prospective teachers to become certified in these areas	316,315	\$		Incentives to recruit out-of-state teachers, in-state teachers, support services personnel, and tuition support for teacher licensure requirements (1/4 of estimated need)
	Development of an instructional support system to support the instructional processes and functions necessary for ensuring student learning	63,247		2	Pist DOE rollingerendstikun
	Professional development for building- level administrators to become leadership coaches	130,794	S	4	Per DOE recommendation
Total System-level Intervention Cost		1,053,219	\$	34	

Other System-level Debt service Expenses	476,418 \$ 542 Principal and interest on bonded debt is not From DOE expense files included in "per pupil" costs above, but Included in the Total School Cost row in "Cost vs. Budgei" tab in Adequate School Models
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^{*} Interventions and related costs have been italicized and highlighted in blue

Model VI: Adequate High School Model - 1,477 Students

Program Element	Component	FTE	Component cost	Per-	Pupil	Explanation/Assumptions	Comments
7.5	1,477	100000000000000000000000000000000000000	(SY2003-04)		ost	Average of regular high schools	From enrollment data received from DOE
Student enrollment Teacher salary	\$43,440					Average salary 2003-04	From salary by levels file
Principal salary	\$86,537	500	< Model innuits		Average salary 2003-04	From salary by levels file	
Vice principal salary	\$61,216 32%				Average salary 2003-04 Employer payroll taxes, employer	From salary by levels file Benefits rate per DOE	
Fringe benefits rate						contribution, and health benefits	,
Instructional staff	English math science social sciences, second languages, the arts, electives, school-to-career transitions *	74.0	4,233,681	\$	2,866	Add 3 reading teachers, 1 school-to-career teacher, 2 advanced placement (AP) teachers	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Media/Librarian	2.0	116,713	\$		Includes average salaries and fringe bonofite	Salary per student from DOE expense file data plue fringe benefite of 20%. FTE calculated by dividing total expense by average salary
	Special education and alternative education staffing	15.6	890,906	\$		Includes average salaries and fringe benefits	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Substitute teachers for general instruction		167,344	\$	113	Includes salaries and fringe benefits	Salary per student from DOE expense file data plus payroll costs estimated at 10%
	Counseling	7.2	411,239	5	278	Includes counselor for postsecondary options program	Salary per student from DOE expense file data plus tringe benefits of 32%. FTE calculated by dividing total expense by avarage salary
	Co-curricular/activities director	1.4	81,699	\$	55	Includes salaries and fringe benefits	Salary per student from DOE expense file data plus fringe benefits of 32%
Additional instructional	Tutors		24,371	5	17	Includes salaries and fringe benefits	Salary per student from DOE expense file data
time for students to	Summer school instructional		64,192	\$	43	Includes salaries and fringe benefits	plus payroll costs estimated at 10% Salary per student from DOE expense file data
achieve standards	staff (Licensed and Classified)				138	Consultants	plus fringe benefits of 32% From DOE expense file data - allocation to
Instructional improvement	coordinators to conduct professional development		204,125				instructional improvement assumed Salary per student from DOE expense tile data
Instructional support staff	Principal's secretary	1.0	41,184	5		260 days @ \$ 15 per hour plus fringe benefits	plus fringe benefits of 32%
	Educational Assistanta	13.7	373,480	\$	253	185 days per year @ \$14 per hour. Positions such as educational assistants and special ed assistants	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Classified support staff	32.4	1,005,083	S	680	210 days per year @ \$14 per hour. Positions such as school business manager, account clerk, clerk typist, library assistant school-to-career facilitator, 3 campus security monitors	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
Administrative accountability	Principal	1.0	106,986	\$		Salary and benefits average for high school principals	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Vice principals	2.8	229,535	\$	155	Salary and benefits average for high school vice principals	Salary per student from DOE expense file data plus fringe benefits of 32%. FTE calculated by dividing total expense by average salary
	Teacher leadership		696.921	S		Grade level and department head stipends Teacher leadership Gevelopment	Stipends plus benefits at 32%
	Supplies and materials		176,960	8	120	Newsletters, report cards, student records	From DOE expense files
Computer hardware/	Hardware including student and		54,352	\$	37	School-level expenses	From DOE expense files
software	Software		10,112	\$	7	Software for new computers plus upgrades	From DOE expense files
	Network upkeep/upgrades		64,464	s	44	Upgrade and maintenance of network	From DOE expense files
Supplies, sooks,	Texts, consumables, classroom		63,200			hardware and software School-level expenses	From DOE expense files
materials	sets Classroom materials, all		139,040			School-level expenses	From DOE expense files - classroom supplies,
	equipment, supplies						equipment and misc, expenses From DOE expense files - allocated misc.
	Copying		54,649			School-level expenses Library books, reference materials,	expenses From DOE expense files
	Media center materials		40,766			subscriptions, audio visual	
Extra-curricular activities	Coaching Non-athletic extra-curricular		94,800 35,448	-	64 24		From DOE expense files Estimated cost based on best practices
Professional training and development	Training to teach reading, score research paper, advanced placement, mentor teachers, release time, positive behavioral support system small learning communities		823,239		557	Training to teach reading Training to teach and score research paper Training to teach advanced placement (AP) classes Mentor teacher training, release time Positive behavioral support system Small learning communities	Assumes centralized staff development
Duilding connect control	Food services		533,197	•	361	Central costs plus per-student school-level	From DOE expense files
Building support costs: costs distributed to each	Student transportation					expense Central costs plus per-student school-level	From DOE expense files
building	ошови накоронация		270,291	9		expense	7.7

Adequate High School, Page 1 of 2 10:44 AM, 5/12/2005

Program Element	Component	FTE	Component cost (5Y2003-04)	Per-Pupil Cost	Explanation/Assumptions	Comments
	Technology services		144,746	\$ 98	Computer networks, telephones, voice mail	From DOE expense files
	Operation, plant maintenance, and other support services		933,464	\$ 632	Custodian, maintenance staff, utilities, security system, warehouse, courier	From DOE expense files
	Central contracted services		809,503	\$ 548	Fees for professional services	From DOE expense files
	Centralized special education		386,974	\$ 262	Self-contained schools, other students who are not served at the building level	From DOE expense files
	Centralized ourrioulum development, professional development, assessment		470,540	\$ 324	Centralized ourriculum development, assessment, and other instructional improvement services	From DOE exponee files
istrict administrative upport	Executive administration (Board of Education, Superintendent)		143,269	\$ 97	Central costs	From DOE expense files
	Business & fiscal services		84,189	\$ 57	Central costs	From DOE expense files
	Personnel services		78,281		Central costs	From DOE expense files
	Public information		10,339	\$ 7	Central costs	From DOE expense files
Program support cost to implement interventions			233,220	\$ 158	Administrative Support	Estimated cost based on best practices
dequate High School-			\$ 14,316,510	\$ 9,693		
OOE Systel-level		***************************************	\$ 50,585	\$ 34		
otal Adequate High chool Cost			\$ 14,367,095	\$ 9,727	Includes all elements and componinterventions below	ents above, and system-level

DOE System-Level Interventions apportioned to Adequate	Parent Community Networking Center (PCNC) expansion and focus on academic support	367,720	S	8	Parent involvement - per DOE recommendation
High Schools	Assessment data management system.	466,541	\$	10	Centralized support, and Training in the use of data by teachers
	Identify areas of teacher stronages in high-printify academic areas and offer incentives to prospective teachers to become certified in these areas	486,106	\$		Incentives to recruit out-of-state teachers, in-state teachers, support services personnel, and tutton support for teacher (Icensure requirements (1/4 of estimated need)
	Development of an Instructional support system to support the instructional processes and functions necessary for ensuring student learning	97.196	S	2	Per DOE recommendation
	Professional development for building-level administrators to become leadership coaches	201,001	\$	4	Per DOF recommendation
Total System-Level Intervention Cost		1,618,564	\$	34	

Other System-level Debt service Expenses	800,534 \$ 542 Principal and interest on bonded debt is not included in "per pupil" costs above, but	
·	included in the Total School Cost in "Cost vs. Budget" tab in Adequate School Models	

^{*} Interventions and related costs have been italicized and highlighted in blue

Adequate High School, Page 2 of 2 10:44 AM, 5/12/2005

Table III: Elementary School Interventions

Intervention Number	Adequacy Goals	Elementary Intervention	Elementary Elements, Components	Cost	Cost per pupil	Forecast Effect	Research Base (Proven, Promising Practice, Sound Theory)
1	6, 14	Targeted reading and math programs using research-validated methods in grades 1-3	Two on-site expert teacher to work with other teachers implementing program Based on costs of whole-school programs, 10 days training for all teachers	\$170,010	\$323	Increase in percent of students meeting state standards	Proven
2	6, 14	Increase tutoring in reading and math in grades 4-5	One tutor per 5 students, bottom 40% of students, 4 hrs/week, 30 weeks/year Training for tutors (5 days)	\$109,827	\$208	Increase in percent of students meeting state standards	Proven
Ġ	6, 12, 14	Summer school with academic focus for students in the bottom 40% each year (grades K-5)	6 weeks, half day, 17.5/1 class size	\$60,700		Increase in percent of students meeting state standards	Proven
4	11, 12	Intensive language acquisition programs for ESLL student by reducing student teacher ratio	Additional .5 ESLL teaching staff	\$30,502		Increase in percent of students meeting state standards	Promising Practice
5	3, 14	Instructional improvement coordinator to organize and conduct professional development on a range of issues and to coach teachers	Instructional coordinator (shared among a number of professional development activities) Train and supervise tutors	\$61,005	\$116	Increase teacher satisfaction Increase teaming Increase students meeting state standard	Proven
6	3, 6, 14	Additional training for teachers to gain specific knowledge and skills that improve their ability to teach reading and math to students not meeting standards	Evidence-based professional development program- 10 days @ 200/day) plus consultants	\$78,000	\$148	Increase percent of students meeting state standards	Promising Practice
7		Mentor teachers who are new to the profession	Assumes 3 new teachers/year 6 release days \$2000 stipend Workshops for beginning teachers			Increase teacher retention Increase teacher satisfaction Increase teacher teaming	Proven
8	3, 14	Teacher leadership development program (teaming, instructional improvement)	Substitute teachers Sitpends for 6 teachers	\$8,700		Increase teacher retention Increase teacher satisfaction Increase teacher teaming	Promising Practice
9	5, 6	Computer-assisted instructional labs and workstations	Lease costs Computer hardware, software Professional development Computer lab paraprofessional	\$83,021	\$158	Increase percent of students meeting state standards	Proven
10		Additional support for high-needs special education students to meet No Child Left Behind (NCLB) standards	Teacher Paraprofessionals Extra time for learning Teacher planning and teaming	\$60,02		Decrease number of schools failing to make Adequate Yearly Progress (AYP) Increase percent of students meeting state standards	Promising Practice Sound Theory
11		Positive Behavioral Supports (PBS) System (improve discipline, classroom management)	Professional development Consultants	\$81,471	\$155	Increase student well being and safety Increase time on task Increase percent of students meeting state	Proven.
12		Program support cost to implement interventions	Program support and coordination at the building and central level for adequacy interventions	\$94,000 \$121,085	\$178 \$230	standards	
			Total elementary school intervention cost (does not include System-level intervention costs)	Ψ(1-1)-03	\$230 \$1,762		
			Percent increase above baseline elementary school		19.9%		

Table IV: Middle School Interventions

Intervention Number	Adequacy Goals	Middle School Intervention	Middle School Elements, Components	Cost	Cost per pupil	Forecast Effect	Research Base (Proven, Promising Practice, Sound
1	6, 8	Reading program focused on informational texts (e.g., textbooks), chart, graphs, diagrams, data arrays, and reading across the curriculum	Professional development Materials, supplies Reading teacher	\$89,666	\$102	Increase percent of students meeting state standards	Theory) Promising Practice
2	2, 4, 5, 14	Create core academic curriculum into which all students are enrolled unless they opt out	Additional instructional staff in core academic areas	\$233,002	\$200	Increase proportion of students capable of taking college prep courses upon entry to hig+OLE_LINKOh	Promising Practice
3	9, 12	Improve counseling services at the middle level to help improve student achievement	Counselors	\$116,931	\$133	Increase attendance Decrease discipline problems	Promising Practice, Sound Theory
4	3,14	Mentor teachers who are new to the profession	Assumes 5 new teachers/year 6 release days \$2000 stipend Workshops for beginning teachers	\$14,500	\$16	Increase teacher retention Increase teacher satisfaction Increase teacher teaming	Proven
5	9	Positive Behavioral Support (PBS) System (improve discipline, classroom management)	Professional development Materials, supplies	\$156,462		Increase student time on task Reduce discipline problems Allow principal to focus on instructional improvement	Proven
6		Closely articulate middle school and high school mathematics curriculum so that all students progress at an appropriate rate and that all are placed property when they enter high school	Professional development Teacher stipends	\$30,000	\$24	Decrease failure rate in 9 th grade math classes	Promising Practice
7	3, 14	conduct professional development on a range of issues and to coach teachers		\$87,698	\$100	Increase teacher teaming Improve teacher quality	Proven
8	经产品证券 经证券 化二甲基苯	Teacher leadership development program (teaming, instructional improvement)	Professional development Substitute teachers Stipends			Increase teacher retention Increase teacher satisfaction Increase teacher teaming	Promising Practice
9	9		3.0 FTE paraprofessionals to serve as campus monitors, 185 days	\$23,700 \$61,399		Improve student perceptions of safety/well being	Promising Practice, Sound Theory
10	1, 2, 4, 5, 9	Small learning communities	Professional development Supplies, materials Teacher leadership (coordination, common planning)	\$33,800		Improve student perceptions of safety/well being Improve attendance Decrease behavioral problems	Promising Practice
11			Program support and coordination at the building and central level for adequacy interventions	\$127,203	\$145		
			Total middle school intervention cost (does not include System-level intervention costs)		\$1,109		Area (All Area (
			Percent increase above baseline middle school		13.8%		

Intervention costs 10:29 AM, 5/13/2005

Table V: High School Interventions

Intervention Number	Adequacy Goals	High School Intervention	High School Elements, Components	Cost	Cost per pupil	Forecast Effect	Research Base (Proven, Promising Practice, Sound Theory)
1	6, 8	Reading program focused on informational texts (e.g., textbooks), chart, graphs, diagrams, data arrays, and reading across the curriculum	Professional development Materials, supplies 3 reading teachers	\$202,831	\$137	Increase college readiness Improve reading ability in non-English classes	Promising Practice, Sound Theory
2	10, 8	Increased student writing, including multiple 5-page research papers	Stipend for scorers	\$73,850	\$50	Increase college readiness Improve retention in first year of college	Promising Practice, Sound Theory
3	3, 4, /	Community-based internships and career clusters (student-run businesses, etc.)	1.0 FTE instructional support 1.0 FTE support staff	\$88,186		Improve attendance Reduce dropout rate Increase successful transition to the workplace	Proven
4	3, 10	Postsecondary options and dual enrollment programs	1.0 FTE counseling and coordination staff	\$57,210		Increase college readiness Improve retention in first year of college	Proven
5	2, 10	Increase Advanced Placement enrollment (AP) and pass-rate on AP examinations	Professional development (advanced placement training, scoring) Instructional staff (2 additional AP teachers) Tutoring, extra time for instruction	\$134,421	.591	Increase college readiness Improve retention in first year of college	Proveit
6	3, 14	Mentor teachers who are new to the profession	Assumes 8 new teachers/year 6 release days \$2000 stipend Workshops for beginning teachers	\$23,200	\$16	Increase teacher retention Increase teacher satisfaction Increase teacher teaming	Proven
7	3, 14	Instructional improvement coordinator to organize and conduct professional development on a range of issues and to coach teachers				Increase teacher satisfaction Increase teaming Increase students meeting state standard	Proven
8	3, 14	Teacher leadership development program (teaming, instructional improvement)	Professional development for 9 teachers Substitute teachers stipends	\$171,631 \$35,550	\$116	Increase perceptions of teaming Increase teacher retention	Promising Practice, Sound Theory
9	9	Campus security increased to improve students' sense of safety and well-being	3.0 FTE paraprofessionals, 210 days	\$92,928		Improve student perceptions of safety and well-being	Promising Practice, Sound Theory
10	9	Positive Behavioral Support (PBS) System (improve discipline, classroom management)	Professional development Consultants	\$262,906	\$178	Increase student well being and safety Increase time on task Increase percent of students meeting state standards	Proven
11	2, 9	Small learning communities, including career academies	Professional development Supplies, materials Teacher leadership (coordination, common planning)	\$412,083	\$27.9	Improve student perceptions of safety and well-being	Promising Practice, Sound Theory
12	,	implement interventions	Program support and coordination at the building and central level for adequacy interventions	\$233,220	\$215 \$158		
			Total high school intervention cost (does not include System- level intervention costs)		\$1,2 11		
			Percent increase above baseline high school		14.3%		

Intervention costs 10:29 AM, 5/13/2005

Table VI: DOE System-level Interventions

Intervention Number	Adequacy Goals	System-level Intervention	System-level Elements, Components	Cost	Cost per pupil	Forecast Effect	Research Base (Proven, Promising Practice, Sound Theory)
1	2, 3, 13	Parent Community Networking Center expansion and focus on academic support	Per DOE recommendation	\$1,418,731		Increase parental involvement, Increase student achievement	Promising Practice, Sound Theory
2	14	Assessment data management system	Centralized support Training in the use of data by teachers	\$1,800,000		Increase student achievement particularly for low- achieving, high-mobility students	Promising Practice
3	3, 6, 8	Identify areas of teacher shortages in high-priority academic areas and offer incentives to prospective teachers to become certified in these areas		\$1,875,488	\$10	Increase teacher retention rate	Promising Practice, Sound Theory
4	10, 6	Develop an Instructional Support System to support the Instructional processes and functions necessary for ensuring student learning	Per DOE recommendation	\$375,000	\$2	Increase percent of students meeting state standards	Promising Practice, Sound Theory
5	•,	Professional development for building-level administrators to become leadership coaches	Per DOE recommendation	\$775,500	\$4	Increase teacher effectiveness and efficacy	Proven
		·	Total System-level intervention cost	\$6,244,719	\$34		

10:29 AM, 5/13/2005

Year	Intervention Program Categories	Program Cost (per pupil)	Total by Year (per pupil)
	Positive Behavioral Support (PBS) System (improve discipline, classroom management)	\$178	
Year 1	Summer school with academic focus for students in the bottom 40% each year (grades K-5)	\$115	\$310
	Mentor teachers who are new to the profession	\$17	
Year 2	Targeted reading and math programs using research-validated methods in grades 1-3	\$323	
	Teacher leadership development program (teaming)	\$57	\$380
Year 3	Increase tutoring in reading and math in grades 4-5	\$208 \$324	
	Instructional improvement coordinator to organize and conduct professional development on a range of issues and to coach teachers	\$116	
<u> </u>	Computer-assisted instructional labs and workstations	\$158	
Year 4	Additional training for teachers to gain specific knowledge and skills that improve their ability to teach reading and math to students not meeting standards	\$148	\$306
	Additional support for high-needs special education students to meet NCLB standards	\$155	
Year 5	Intensive language acquisition programs for ESLL student by reducing student-teacher ratio	\$58	\$212
Pro- Rata	Program support cost to implement interventions	\$230	\$230
	Total	\$1,762	\$ 1,762

Phased Implementation 6:54 PM, 5/18/2005

Year	Middle School Interventions - Phased Implem Intervention Program Categories	Program Cost (per pupil)	Total by Yea (per pupil)	
Year 1	Positive Behavioral Support (PBS) System (improve discipline, classroom management)	\$178		
	Mentor teachers who are new to the profession	\$16	\$264	
	Campus security increased to improve students' sense of safety and well-being	\$70		
	Create "default core" curriculum into which all students are enrolled unless they opt out	\$266		
Year 2	Closely articulate middle school and high school mathematics curriculum, so that all students progress at an appropriate rate and that all are placed properly when they enter high school	\$34	\$327	
	Teacher leadership development program (teaming, instructional improvement)	\$27		
	Reading program focused on informational texts (e.g., textbooks), chart, graphs, diagrams, data arrays, and reading across the curriculum	\$102		
	Instructional improvement coordinators to organize and conduct professional development on a range of issues and to coach teachers	\$100		
Year 3	Improve counseling services at the middle level to help diagnose students with out-of-classroom problems that are preventing them making adequate progress toward meeting standards	\$133	\$373	
	Small learning communities	\$38		
Pro- Rata	Program support cost to implement interventions	\$145	\$145	
	Total	\$1,109	\$ 1,10	

Phased Implementation 10:38 AM, 5/13/2005

	High School Interventions - Phased Impleme	ntation	T	
Year	Intervention Program Categories	Program Cost (per pupil)	Total by Year (per pupil)	
	Positive Behavioral Support (PBS) System (improve discipline, classroom management)	\$178		
Year 1	Campus security increased to improve students' sense of safety and well-being	\$63	\$257	
	Mentor teachers who are new to the profession	\$16		
	Small learning communities, including career academies	\$279		
Year 2	Teacher leadership development program (teaming, instructional improvement)	\$24	\$303	
	Instructional improvement coordinator to organize and conduct professional development on a range of issues and to coach teachers \$116			
Year 3	Community-based internships and career clusters (student-run businesses, etc.)	\$60	\$313	
	Reading program focused on informational texts (e.g., textbooks), chart, graphs, diagrams, data arrays, and reading across the curriculum	\$137		
	Increased student writing, including multiple 5-page research papers	\$ 50		
Year 4	increase Advanced Placement enrollment and pass-rate on AP examinations	\$91	\$180	
	Postsecondary options and dual enrollment programs	\$39		
Pro- Rata	Program support costs to implement interventions	\$158	\$158	
	Total	\$1,210	\$ 1,210	

Phased Implementation 10:38 AM, 5/13/2005

	DOE System-level Interventions - Phased Imple		
Year	Intervention Program Categories	Program Cost (per pupil)	Total by Year (per pupil)
	Assessment data management system	\$10	
Year 1	Identify areas of teacher shortages in high-priority academic areas and offer incentives to prospective teachers to become certified in these areas	\$10	\$20
	Parent Community Networking Center expansion and focus on academic support	\$8	
Year 2	Develop an Instructional Support System to support the instructional processes and functions necessary for ensuring student learning	\$2	\$14
	Professional development for building-level administrators to become leadership coaches	\$4	
	Total	\$34	\$ 34

Phased Implementation 10:38 AM, 5/13/2005

State of Hawaii



Department of Education

Adequacy Funding Study

Reference Guide

Table of Contents

I.	INTRODUCTION	3
II.	ADEQUACY INTERVENTIONS	9
III.	RATIONALE FOR ADEQUACY INTERVENTION AND POTENTIAL EFFECTS ON STUDENT LEARNING	
IV.	ADEQUACY FACTORS BY SCHOOL LEVEL	.29
V.	PHASED IMPLEMENTATION PLAN	.35
VI.	SPECIAL CASE OF COMBINED AND CHARTER SCHOOLS	.39
VII.	HOW TO USE THE MODELS	.40
VIII	REFERENCES	.42

I. INTRODUCTION

Purpose of the Reference Guide

This Reference Guide provides contextual information and details necessary to understand the Adequate Schools.

Conceptual Framework for the Adequacy Process

The adequacy process is designed to determine how education can be best organized and conducted in order to achieve DOE's stated goals (please refer to Figure 1 for study methodology). By establishing goals and identifying best practices, it is possible to determine the likely costs and changes necessary for schools to achieve those goals. From this process, policy makers and practitioners alike can determine what it takes to improve schools, and to judge the progress schools are making once the necessary changes are made and put into practice.

Process for Developing Baseline and Adequate School Models

Adequacy is determined by constructing three current or "baseline" school models, one each for elementary, middle, and high schools.

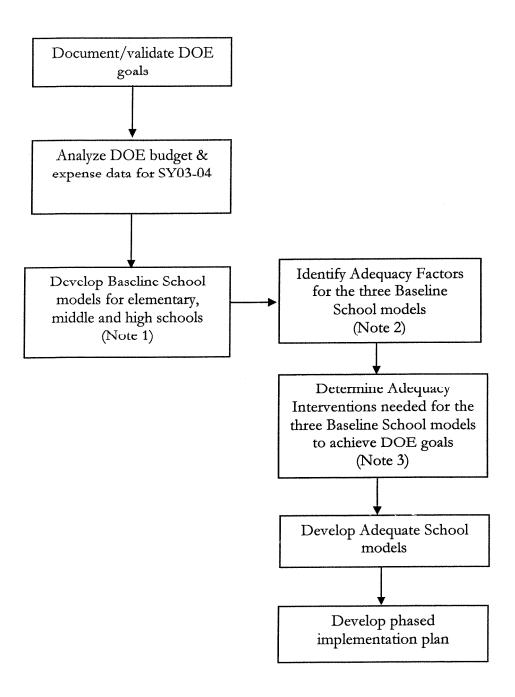
Step 1: Baseline School models that accurately reflect current educational practices and expenditures are constructed. These schools reflect certain assumptions about their enrollment, number of teachers, salaries, etc., that are derived from actual data. When the per-pupil cost is multiplied against the total number of students in the Baseline School models, the resulting figure equals current educational expenditures.

Step 2: The next step is to develop the "adequate" school models. These three models are identical to the Baseline School models, except that they have "interventions" designed to improve their effectiveness in educating students to meet the goals previously identified for the school system as a whole. Each of these interventions is selected based on its demonstrated ability to improve student learning in areas identified as important goals.

The costs of the adequacy interventions are calculated, and the resulting per-pupil cost is multiplied again by the number of students in the state at that level (elementary, middle, or high school, depending on the model), then totaled to yield a budget figure. The difference between the total budget required for the Baseline School models and the Adequate School models lets the state know how much more it should be prepared to invest in its schools to achieve its goals.

Step 3: A timetable is developed for phasing in the interventions over several years. This plan helps spread implementation costs and also gives schools time to implement new practices and programs over several years instead of all at once.

Figure 1: Adequacy Funding Study Methodology



Note 1: The Baseline School models estimate how the SY03-04 DOE budget was spent at an average elementary, middle and high school with the K-12 school system

Note 2: Adequacy Factors refer to school characteristics that are listed on pages 29 to 34 of the reference guide

Note 3: Adequacy Interventions refer to additional research-based practices that will require additional funding in order for DOE to achieve its goals

Definition of Adequate Schools

Adequate Schools are created when a series of cost-effective changes, or interventions, are added to the Baseline Schools in order to enhance the achievement of DOE and related federal goals. These interventions are labeled "Adequacy Interventions" and the resulting model schools are identified as "Adequate Schools."

Purpose of Adequate Schools

Adequate Schools can be used to:

- Determine the most cost-effective means for achieving state and federal education goals
- Estimate the effects on goal achievement of specific educational interventions identified as having demonstrated positive effects on aspects of student learning and school functioning
- Define necessary changes in the Adequacy Characteristics in order to support the goal achievements projected in Adequate Schools
- Forecast student achievement in the Adequate Schools versus the Baseline Schools

Criteria for Selecting Adequacy Interventions

Adequacy Interventions are the specific changes that would most likely enable the Adequate Schools to achieve the system's stated goals. These interventions are selected based on the following criteria:

- Demonstrated research base supporting their effectiveness
- Sound theoretical foundation supporting effectiveness where emerging research findings suggest effectiveness in areas where research is still exploratory in nature, and sound theoretical justification underlying the practices
- Cost-effectiveness as judged by the potential to achieve stated education goals in relation to the costs required to do so

Research Supporting Adequacy Interventions

The research supporting the Adequacy Interventions is drawn from a range of empirical sources and reports of effective programs. The two key documents underlying and framing the specific interventions are two reports by ECONorthwest and the Center for Educational Policy Research (CEPR) for the Chalkboard Project in 2004 and a document produced by the Educational Testing Service (ETS).

The first ECONorthwest/CEPR report, Improving quality: Evidence on resource-based policies and student achievement, is composed of seven chapters that summarize research and promising practices in the following areas:

- Class Size reviews the evidence on class-size reduction strategies and considers
 findings for different grade levels and for students of different ethnic, racial, and socioeconomic backgrounds
- Staff Quality reviews policies aimed at improving teacher, principal, and administrator

quality through recruitment, licensure, retention, and related professional development policies

- Facilities and Equipment considers effective facilities, optimal school size, and small learning communities
- Instructional Practices covers curriculum alignment, diagnostic testing, student grouping, homework, duration of instruction (e.g., tutoring, summer school, extended school days, contact hours), and discipline policies
- Special Education considers the rapidly growing area of special education and addresses student identification and placement policies, mainstreaming, and other strategies
- Readiness to Learn considers the capacity of early childhood education programs, pre-kindergarten, and kindergarten to fully prepare children to learn
- Student and Parental Involvement discusses the practices and policies that schools have implemented to improve student attendance and stimulate parental involvement

The second report, Strengthening accountability: Evidence on regulatory and market-based strategies to improve student achievement, also provides information that is used to identify Adequacy Interventions. However, this report also identifies School Adequacy Factors that need to be in place for Adequacy Interventions to achieve their intended results.

These sources are supported by additional primary source studies, meta-analyses, and syntheses of the literature in areas for which the reports do not provide specific information or citations.

The ETS document, Parsing the achievement gap: Baselines for tracking progress, summarizes the correlations between achievement and specific strategies/interventions that may help close the achievement gap and provides evidence of the effects on learning of the most effective interventions.

Calculating the Costs of Adequacy Interventions

The costs of Adequacy Interventions can be calculated in two ways: 1) implementation costs, and 2) recurring costs. The Adequate Schools as presented include both implementation and recurring costs and do not make a distinction between the two.

Implementation costs consist primarily of training and other one-time expenses required to operationalize a particular Adequacy Intervention into practice. Recurring costs measure the on-going expense of an intervention once it is fully implemented. An assumption is made that some portion of the implementation costs will be shifted to continuing professional development and training after the initial interventions are successfully implemented. However, it would be possible to reduce the assumed costs of the adequacy model to some extent after all interventions are fully implemented through a multi-year phased implementation method, if it is assumed that professional development costs specific to implementation are then permanently removed.

Specific costs are calculated based on the following sources, in descending order of preference:

Published costs for models or comparable interventions

- Calculated costs from schools or organizations where the intervention has been implemented
- Estimated costs based on best practices

In several areas, cost estimates are based on figures taken from DOE appropriations request.

Adequate Schools are created for elementary, middle, and high school, and are assumed to operate under the same assumptions as the Baseline School models.

Adequate School models describe the full costs of implementing a series of programmatic changes that would result in improved student achievement. The full cost includes one-time professional development costs that would be expected to decrease after the programs are well established. These training costs will decrease at a varying rate over a period between one to three years.

Defining an Adequate Education for the State of Hawaii

As a first step in the adequacy calculation, we gathered policy statements from various sources in order to determine the current definition of an adequate education in the State of Hawaii. These sources include DOE's strategic plan and accountability framework as well as policy documents provided by the Board of Education, Act 51 and the Hawaii Revised Statutes.

We integrated information from the above sources and aligned various policy statements with DOE's four strategic goals¹. For purposes of model development the above fourteen policy statements are characterized as "adequacy goals". The purpose of integrating and listing these goals in one place is; (1) to outline the results that various stakeholders in the state education system are seeking to achieve from its schools; (2) to help schools make better decisions about how to align, organize and conduct instruction effectively; and (3) to create a reference point for the Adequate Interventions that are proposed to help achieve these goals.

- 1. Offers students an equal educational opportunity to enroll in programs regardless of race, color, religion, sex, sexual orientation, disabilities, or national origin
- 2. Transmits the most important elements of the diverse cultures that make up the State, while simultaneously advancing the endowment of those cultures for the benefit of subsequent generations of students and society at large
- 3. Builds upon a partnership among highly-qualified professional educators, parents, and community members who work together for student success
- 4. Enables all students to participate fully in a democratic society, and engage productively in a market economy
- 5. Equips all students to function effectively in today's pluralistic society

¹ It is important to note that this document integrates policy statements contained in various documents; it is not an effort to define new goals or direction for the DOE

- 6. Systematically develops student mastery of fundamental academic skills, including literacy and numeracy, so that all students reach high levels of performance, the purpose of which is to close the gap in achievement between different racial and economic groups
- 7. Exposes students to a broad body of knowledge and comprehensive set of skills that support lifelong learning, effective decision-making, self-awareness, and higher order thinking
- 8. Offers a comprehensive curriculum to all students built around a core that includes English language arts, sciences, mathematics, social studies, fine arts, health and fitness, world languages, and home and work skills
- 9. Ensures student safety and well being within environments that have adequate facilities, equipment, books, and other learning resources
- 10. Allows students to move continuously and seamlessly from entry into pre-school to a successful transition to high school
- 11. Serves as the primary means for students who arrive from other nations to make a successful transition to the American educational system and culture
- 12. Addresses the special needs of students who face educational challenges
- 13. Engages parents and the community as full partners in the student's learning process
- 14. Promotes continuous improvements in student learning through research-based practices, site-based decision-making, and public accountability

As mentioned earlier, for the purposes of model development the above fourteen policy statements are characterized as "adequacy goals".

II. ADEQUACY INTERVENTIONS

The following interventions are included in the Adequate Schools by level:

Table VII: Adequacy Interventions for Elementary School

INTERVENTION NUMBER	ADEQUACY INTERVENTIONS	ADEQUACY GOALS	ELEMENTS AND COMPONENTS	RESEARCH BASE
1	Targeted reading and math programs using research-validated methods in grades 1-3	6, 14	2 additional specialist teachers 10 days training for teachers	Proven
2	Increase tutoring in reading and math in grades 4-5	6, 14	One tutor/5 students, bottom 40% of students, 4 hrs/week, 30 weeks/year Training for tutors (5 days)	Proven
3	Summer school with academic focus for students in the bottom 40% each year (grades K-5)	6, 12, 14	6 weeks, half day, 17.5/1 class size	Proven
4	Intensive language acquisition programs for ESLL students by reducing student-teacher ratio	11, 12	Additional .5 FTE ESL teacher	Promising Practice
5	Instructional improvement coordinators to organize and conduct professional development on a range of issues and to coach teachers	3, 14	Instructional coordinator (shared among a number of professional development activities) Train and supervise tutors	Proven

INTERVENTION NUMBER	ADEQUACY INTERVENTIONS	ADEQUACY GOALS	ELEMENTS AND COMPONENTS	RESEARCH BASE
6	Additional training for teachers to gain specific knowledge and skills that improve their ability to teach reading and math to students not meeting standards	3, 6, 14	Evidence-based professional development program- 10 days at \$200/day plus consultants	Promising Practice
7	Mentor teachers who are new to the profession	3, 14	Assumes 3 new teachers/year 6 release days \$1500 stipend Workshops for beginning teachers	Proven
8	Teacher leadership development program (teaming, instructional improvement)	3, 14	Professional development, stipends for 6 teachers Substitute teachers	Promising Practice
9	Computer-assisted instructional labs and workstations	5, 6	Lease costs Computer hardware, software Professional development Computer lab paraprofessional	Proven
10	Additional support for high-need special education students to meet NCLB standards	6, 12	Teacher Paraprofessionals Extra time for learning Teacher planning and teaming	Promising Practice Sound Theory
11	Positive Behavioral Support (PBS) System (improve discipline, classroom management)	9	Professional development Consultants	Proven

INTERVENTION NUMBER	ADEQUACY INTERVENTIONS	ADEQUACY GOALS	ELEMENTS AND COMPONENTS	RESEARCH BASE
12	Program support cost to implement interventions		Program support and coordination at the building and central level for adequacy interventions	

Table VIII: Adequacy Interventions for Middle School

INTERVENTION NUMBER	ADEQUACY INTERVENTIONS	ADEQUACY GOALS	ELEMENTS AND COMPONENTS	RESEARCH BASE
1	Reading program focused on informational texts (e.g., textbooks), chart, graphs, diagrams, data arrays, and reading across the curriculum	6, 8	Professional development Materials, supplies Reading teacher	Promising Practice
2	Create a core academic curriculum into which all students are enrolled unless they opt out	2, 4, 5, 14	4 additional instructional staff in core academic areas	Promising Practice
3	Improve counseling services at the middle level to help diagnose students with out-of-classroom problems, that are preventing them from meeting standards	9, 12	2 counselors to reduce pupil:counselor ratio to 250:1	Promising Practice, Sound Theory
4	Mentor teachers who are new to the profession	3, 14	Assumes 3 new teachers/year 6 release days \$1500 stipend Workshops for beginning teachers	Proven
5	Positive Behavioral Support (PBS) System (improve discipline, classroom management)	9	Professional development Consultants	Proven

INTERVENTION	ADEQUACY	ADEQUACY	ELEMENTS	RESEARCH
NUMBER	INTERVENTIONS	GOALS	AND	BASE
INDIVIDEA Professional		100	COMPONENTS	
6	Closely articulate middle school and high school mathematics curriculum so that all students progress at an appropriate rate and that all are placed properly when they enter high school	7, 8, 10	Professional development Teacher stipends	Promising Practice
7	Instructional improvement coordinators to organize and conduct professional development on a range of issues and to coach teachers	3, 14	1.5 FTE. Function as teacher-coaches to support Adequacy interventions Work directly with teachers in their classrooms to improve instruction	Proven
8	Teacher leadership development program (teaming, instructional improvement)	3, 14	Professional development Substitute teachers Stipends	Promising Practice
9	Campus security increased to improve students' sense of safety and well-being	9 .	paraprofessionals to serve as campus monitors	Promising Practice, Sound Theory
10	Small learning communities	1, 2, 4, 5, 9	Professional development Supplies, materials Teacher leadership (coordination, common planning)	Promising Practice

INTERVENTION NUMBER	ADEQUACY INTERVENTIONS	ADEQUACY GOALS	ELEMENTS AND COMPONENTS	RESEARCH BASE
11	Program support cost to implement interventions		Program support and coordination at the building and central level for adequacy interventions	Research Base (Proven, Promising Practice, Sound Theory)

Table IX: Adequacy Interventions for High School

INTERVENTION NUMBER	ADEQUACY INTERVENTION	ADEQUACY GOALS	ELEMENTS AND COMPONENTS	RESEARCH BASE
1	Reading program focused on informational texts (e.g., textbooks), chart, graphs, diagrams, data arrays, and reading across the curriculum	6, 8	Professional development Materials, supplies 3 reading teachers	Promising Practice, Sound Theory
2	Increase student writing, including multiple 5-page research papers	8, 10	Stipend for scorers	Promising Practice, Sound Theory
3	Community-based internships and career clusters (student-run businesses, etc.)	3, 4, 7	1.0 FTE instructional staff Support staff	Proven
4	Postsecondary options and dual enrollment programs	3, 10	1.0 FTE counseling and coordination staff	Proven
5	Increase Advanced Placement enrollment and pass-rate on AP examinations	2, 10	Professional development (AP training, scoring) Instructional staff (2 additional AP teachers) Tutoring, extra time for instruction	Proven
6	Mentor teachers who are new to the profession	3, 14	Assumes 8 new teachers/year 6 release days \$1500 stipend Workshops for beginning teachers	Proven

INTERVENTION NUMBER	ADEQUACY INTERVENTION	ADEQUACY GOALS	ELEMENTS AND COMPONENTS	RESEARCH BASE
7	Instructional improvement coordinators to organize and conduct professional development on a range of issues and to coach teachers	3, 14	3 FTE. Function as teacher- coaches to support Adequacy interventions Work directly with teachers in their classrooms to improve instruction	Proven
8	Teacher leadership development program (teaming, instructional improvement)	3, 14	Professional development for 9 teachers Substitute teachers stipends	Promising Practice, Sound Theory
9	Campus security increased to improve students' sense of safety and well-being	9	3.0 FTE paraprofessionals	Promising Practice, Sound Theory
10	Positive Behavioral Support (PBS) System (improve discipline, classroom management)	9	Professional development Consultants	Proven
11	Small learning communities, including career academies	2, 9	Professional development Supplies, materials Teacher leadership (coordination, common planning)	Promising Practice, Sound Theory
12	Program support cost to implement interventions		Program support and coordination at the building and central level for adequacy interventions	Research Base (Proven, Promising Practice, Sound Theory)

Table X: Adequacy Interventions for System-level (DOE Central)

INTERVENTION NUMBER	ADEQUACY INTERVENTION	ADEQUACY GOALS	ELEMENTS AND COMPONENTS	RESEARCH BASE
1	Parent Community Networking Center expansion and focus on academic support	2, 3, 13	Increase parental involvement, increase student achievement	Promising Practice, Sound Theory
2	Assessment data management system	14	Increase student achievement particularly for low-achieving, high-mobility students	Promising Practice
3	Identify areas of teacher shortages in high-priority academic areas and offer incentives to prospective teachers to become certified in these areas	3, 6, 8	Increase teacher retention rate	Promising Practice, Sound Theory
4	Develop an Instructional Support System to support the instructional processes and functions necessary for ensuring student learning	10, 6	Increase percentage of students meeting state standards	Promising Practice, Sound Theory
5	Professional development for building-level administrators to become leadership coaches	3, 14	Increase teacher effectiveness and efficacy	Proven

III. RATIONALE FOR ADEQUACY INTERVENTIONS AND THEIR POTENTIAL EFFECTS ON STUDENT LEARNING

Table XI: Rationale for Elementary School Interventions

INTERVENTION NUMBER	INTERVENTION TYPE	RATIONALE	EFFECT
1	Targeted reading and math programs using research-validated methods in grades 1-3	Developing reading skills in the early grades is one of the most well-established methods for improving student academic achievement and retention in school. A targeted program using evidence-based methods as a part of a whole-school reform program has been proven to be highly effective in improving reading and math in the lower grades.	Effect size ^{iv} = .25 (= 1.15 when combined with curricular change and family support ^v)
2	Increase tutoring in reading and math in grades 4-5	Focused tutoring with trained tutors is an effective follow-up strategy to high-quality, evidence-based instructional programs in grades K-3	Effect size ^{vi} = .0613 reading (.50 w/one-on-one tutoring ^{vii}) .0917 math
3	Summer school with academic focus for students in the bottom 40% each year (grades K-5)	Summer school has been shown to help close the achievement gap, or at least prevent it from increasing, as students progress from grades K-5	Effect size ^{viii} = .0613 reading .0917 math
4	Intensive language acquisition programs for ESLL students by reducing student-teacher ratio	Shortening the time it takes ESL students to master English enables them to meet state standards sooner and reduces the costs of special services for them	Positive effects on language acquisition ^{ix}

INTERVENTION	INTERVENTION TYPE	RATIONALE	EFFECT
NUMBER 5	Instructional improvement coordinators to organize and conduct professional development on a range of issues and to coach teachers	This individual works with teachers to provide professional development in higher-order thinking skills, diversity, and train them to utilize evidence-based instructional methods and to adapt their methods to meet the needs of a wider range of learners	Effect size ^x = .33
6	Additional training for teachers to gain specific knowledge and skills that improve their ability to teach reading and math to students not meeting standards	Lack of content knowledge is often a reason elementary teachers do not teach or aren't comfortable teaching certain topics or concepts. Ensuring content knowledge is a key prerequisite to ensuring the content is taught properly	Positive effects on student learning ^{xi}
7	Mentor teachers who are new to the profession	Current teacher turnover is high due to retirement and other factors. New teachers need to be effective in their classrooms immediately and need to be retained at a higher rate than they are currently	Positive effects on teacher retention ^{xii}
8	Teacher leadership development program (teaming, instructional improvement)	Teacher leaders fulfill a variety of roles and are necessary if decision-making is decentralized to the building level. Teachers who think and act as leaders tend to conduct more research, use data to make decisions, and think in terms of the whole school, and not just their classrooms	Positive effects on school reform and change ^{xiii}

INTERVENTION	INTERVENTION TYPE	RATIONALE	EFFECT
NUMBER			
9	Computer-assisted instructional labs and workstations	Instructional Learning Systems or other comprehensive learning programs can have a positive effect on learning for a range of students and can complement effective classroom instruction	Effect size ^{xiv} = .11
10	Additional support for high-need special education students to meet NCLB standards	Special education students comprise a significant portion of the student population. It will be the most challenging for these students to reach NCLB requirements. Additional support for these students is critical in responding to federal mandates, as well as meeting state education goals	Positive effects on special education students meeting standard**
	Positive Behavioral Support (PBS) System (improve discipline, classroom management)	School-wide discipline is a key component in creating environments where student learning occurs. PBS systems enable teachers to focus on learning and administrators to focus on instructional improvement, instead of discipline	Positive effects on student behavior and participation in class ^{xvi}
12	Program support cost to implement interventions	These interventions require additional administrative support at the building and central levels in order to be implemented, managed, and evaluated. Administrative support is critical to program success	

Table XII: Rationale for Middle School Interventions

INTERVENTION NUMBER	INTERVENTION TYPE	RATIONALE	EFFECT
1	Reading program focused on informational texts (e.g., textbooks), chart, graphs, diagrams, data arrays, and reading across the curriculum	Reading instruction in secondary schools does not occur formally focus on literature. However, to be successful in high school and postsecondary education, students need to be able to read a variety of written materials	Positive effect on student achievement ^{xvii}
2	Create a "default core" academic curriculum into which all students are enrolled unless they opt out	Studies of student transcripts indicate that those who take a defined core curriculum do better in postsecondary education compared to those who choose their own classes	Positive effect on student achievement ^{xviii}
3	Improve counseling services at the middle level to help diagnose students with out-of-classroom problems, that are preventing them from meeting standards	Schools that increase achievement significantly have strategies in place to identify and address the needs of all children, particularly those with personal issues that inhibit achievement. Improved counseling services function to help solve the problems that prevent students from achieving success	Positive effect on student achievement ^{xix}
4	Mentor teachers who are new to the profession	Current teacher turnover is high due to retirement and other factors. New teachers need to be effective in their classrooms immediately and need to be retained at a higher rate than they are currently	Positive effects on teacher retention**
5	Positive Behavioral Support (PBS) System (improve discipline, classroom management)	Schoolwide discipline is a key component in creating environments where student learning occurs. PBS systems enable teachers to focus	Positive effects on student behavior and participation in class ^{xxi}

INTERVENTION NUMBER	INTERVENTION TYPE	RATIONALE	EFFECT
		on learning and administrators to focus on instructional improvement, instead of discipline	
6	Closely articulate middle school and high school mathematics curriculum, so that all students progress at an appropriate rate and that all are placed properly when they enter high school	When curriculum is closely articulated, it is easier to place students appropriately, to sequence skill development, and to avoid redundancy and gaps. An articulated math curriculum allows more students to reach higher levels of math achievement by the end of high school	Positive effect on student achievement ^{xxii}
7	Instructional improvement coordinators to organize and conduct professional development on a range of issues and to coach teachers	These individuals works with teachers to provide professional development in higher-order thinking skills, diversity, and train them to utilize evidence-based instructional methods and to adapt their methods to meet the needs of a wider range of learners	Effect size ^{xxiii} = .33
8	Teacher leadership development program (teaming, instructional improvement)	Teacher leadership is an integral element in instructional improvement and can be considered as a key component in a comprehensive, program of professional development	Positive effect on teacher pedagogy ^{xxiv}
9	Campus security increased to improve students' sense of safety and well-being	Research evidence suggests that students learn more in schools where they feel safe and secure. Additionally, polls suggest that student safety is one of the top priorities of parents. Addressing this variable successfully supports more interventions directed at improving achievement	Positive effect on student learning***

INTERVENTION NUMBER	INTERVENTION TYPE	RATIONALE	EFFECT
10	Small learning communities	An emerging body of evidence is pointing in the direction of smaller learning communities, particularly at the secondary school level, as a means to keep students engaged in school and achieving at higher levels	Positive effect on student learning ^{xxvi}
11	Program support costs to implement interventions	These interventions require additional administrative support at the building and central levels in order to be implemented, managed, and evaluated. Administrative support is critical to program success	

Table XIII: Rationale for High School Interventions

INTERVENTION NUMBER	INTERVENTION TYPE	RATIONALE	EFFECT
1	Reading program focused on informational texts (e.g., textbooks), chart, graphs, diagrams, data arrays, and reading across the curriculum	Reading instruction in secondary schools does not formally focus on literature. However, to be successful in high school and postsecondary education, students need to read a variety of written materials	Positive effect on student achievement ^{xxvii}
2	Increased student writing, including multiple 5-page research papers	The ability to write well, particularly brief research papers, is a key skill in postsecondary education. Studies indicate students will write many such papers in college	Positive effect on student success in college ^{xxviii}
3	Community-based internships and career clusters (student-run businesses, etc.)	High schools that utilize career learning programs organized into clusters, along with community-based internships, result in lower dropout rates and higher student participation	Positive effect on high school participation ^{xxix}
4	Postsecondary options and dual enrollment programs	When students begin to perform college work while in high school, their transition into college is smoother and their success in postsecondary education is increased. These programs also help decrease the costs of college for many students and include technical education, as well as academic postsecondary options	Positive effect on high school completion and college success
5	Increase Advanced Placement (AP) enrollment and pass-rate on AP examinations	If the curriculum can be better aligned between middle and high school and additional learning supports provided in reading and math, more students can be expected	Positive effect on student success in college ^{xxx}

INTERVENTION	INTERVENTION TYPE	RATIONALE	EFFECT
NUMBER		to be ready for AP instruction. When all students are required to take the AP test for that course, students are better prepared for college, even if they do not pass the test	
6	Mentor teachers who are new to the profession	Current teacher turnover is high due to retirement and other factors. New teachers need to be effective in their classrooms immediately and need to be retained at a higher rate than they are currently	Positive effects on teacher retention****
7	Instructional improvement coordinators to organize and conduct professional development on a range of issues and to coach teachers	These individuals works with teachers to provide professional development in higher-order thinking skills, diversity, and train them to utilize evidence-based instructional methods and to adapt their methods to meet the needs of a wider range of learners	Effect size ^{xxxii} = .33
8	Teacher leadership development program (teaming, instructional improvement)	Teacher leadership is an integral element in instructional improvement and can be considered as a key component in a comprehensive, program of professional development	Positive effect on teacher pedagogy ^{xxxiii}
9	Campus security increased to improve students' sense of safety and well-being	Research evidence suggests that students learn more in schools where they feel safe and secure. Additionally, polls suggest that student safety is one of the top priorities of parents. Addressing this variable supports more interventions directed at improving achievement	Positive effect on student learning ^{xxxiv}

INTERVENTION NUMBER	INTERVENTION TYPE	RATIONALE	EFFECT
10	Positive Behavioral Support (PBS) System (improvement discipline, classroom management)	School-wide discipline is a key component in creating environments for student learning. PBS systems enable teachers to focus on learning and administrators to focus on instructional improvement, instead of discipline	Positive effects on student behavior and participation in class ^{xxxv}
11	Small learning communities	An emerging body of evidence is pointing in the direction of smaller learning communities, particularly at the secondary school level, as a means to keep students engaged in school and achieving at higher levels	Positive effect on student learning ^{xxxvi}
12	Program support cost to implement interventions	These interventions require additional administrative support at the building and central levels in order to be implemented, managed, and evaluated. Administrative support is critical to program success	

Table XIV: Rational for System-Level (DOE Central) Interventions

INTERVENTION NUMBER	INTERVENTION TYPE	RATIONALE	EFFECT
1	Parent Community Networking Center expansion and focus on academic support	Educators have long believed that parental involvement was critical to student success. Recent empirical studies and meta-analyses have confirmed a relationship between parental involvement and improved student achievement	Positive effect on student achievement ^{xxxvii}
2	Assessment data management system	More information is being generated about student performance and skills as a result of increased testing requirements. However, without a system to manage the resulting data, teachers will not be able to take advantage of this information to improve instruction and enhance student learning	Positive effect on student achievement ^{xxxviii}
3	Identify areas of teacher shortages in high-priority academic areas and offer incentives to prospective teachers to become certified in these areas	Effective teachers have been demonstrated repeatedly to be one of the single most important variables in determining student achievement. Recruiting highly qualified teachers into areas of shortage will help ensure teacher quality and student achievement	Positive effect on student achievement ^{xxxix}
4	Develop an Instructional Support System to support the instructional processes and functions necessary for ensuring student learning	The system, as a whole, has to be directed toward student achievement. The individual efforts of teachers and students must be supported by a larger system that enables problems to be solved and new methods to be implemented successfully	Positive effects on student achievement ^{xl}

5	Professional development for building-level administrators to become leadership coaches	Principals are one of the single most important variables for performance across schools. If principals can actively support teachers' classroom efforts and develop teacher leadership, student achievement will increase within the school	Effect size ^{xli} = .25
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IV. ADEQUACY FACTORS BY SCHOOL LEVEL

The following chart details the current level of the School Adequacy Factors and how they are expected to change when the Adequate School is implemented. The changes are assumed to occur in part due to the Adequacy Interventions, but also as a result of additional system efficiencies put into place to enable the Adequate Schools to make full use of the additional resources provided. These changes in the Adequacy Factors can serve as indicators of how well the Adequate Schools are functioning and as a form of evaluation for the success of the Adequacy Interventions.

The table presents the Adequacy Factors for the elementary, middle, and high school Adequate Schools, the Adequacy goals they address, their level in the Baseline Schools, and how that level would be expected to change with the implementation of the Adequate Schools.

Table XV: Adequacy Factors for Elementary School

ADEQUACY	ADEQUACY	CURRENT	ADEQUACY.
FACTORS	GOAL	LEVEL	LEVEL
Teacher perceptions of focused and	1	80% positive	90% positive
sustained action		-	
Source: School Quality Survey, Spring 2003			
Teacher attitudes toward standard-	2	88% positive	95% positive
based education			
Source: School Quality Survey, Spring 2003			
Teacher perceptions of student safety	4	86% positive	95% positive
and well being			
Source: School Quality Survey, Spring 2003			
Parent perceptions of student safety and	4	75% positive	95% positive
well being			
Source: School Quality Survey, Spring 2003			
Student perceptions of student safety	4	65% positive	95% positive
and well being			
Source: School Quality Survey, Spring 2003			
Teacher perceptions of involvement	5	84% positive	90% positive
Source: School Quality Survey, Spring 2003			
Parent perceptions of involvement	5	66% positive	90% positive
Source: School Quality Survey, Spring 2003		_	_
Teacher perceptions of coordinated	6	78% positive	90% positive
team work		•	1
Source: School Quality Survey, Spring 2003			
Teacher perceptions of professionalism	7, 9	75% positive	90% positive
and capacity of system	ĺ	•	•
Source: School Quality Survey, Spring 2003			
Alignment of school and staff to state	1,8	Medium	High
and school education goals	•		
Source: HI DOE			
Curriculum alignment within buildings	1, 8	Medium	High
and across levels			
Source: HI DOE			

ADEQUACY FACTORS	ADEQUACY GOAL	CURRENT LEVEL	ADEQUACY LEVEL
Adequacy of professional development	9	Medium	High
program, participation in professional			
development			
Source: HI DOE			
Parent perceptions of professionalism	7, 9, 10	83% positive	90% positive
and capacity of system			
Source: School Quality Survey, Spring 2003			
Student perceptions of professionalism	7, 9, 10	84% positive	95% positive
and capacity of system			
Source: School Quality Survey, Spring 2003			
Use of data systems by teachers to make	11	Low	High
instructional decisions about student			
learning needs			
Source: HI DOE			
Teacher perceptions of responsiveness	7, 12	82% positive	90% positive
of the system			
Source: School Quality Survey, Spring 2003			
Teacher satisfaction	1, 2, 3, 4, 5, 6	63% positive	85% positive
Source: School Quality Survey, Spring 2003			
Parent satisfaction	2, 3, 4, 10	70% positive	90% positive
Source: School Quality Survey, Spring 2003		•	*
Student satisfaction	2, 3, 4, 10	73% positive	95% positive
Source: School Quality Survey, Spring 2003		-	_

Table XVI: Adequacy Factors for Middle School

ADEQUACY FACTORS	ADEQUACY	CURRENT	ADEQUACY
· · · · · · · · · · · · · · · · · · ·	GOAL	LEVEL	LEVEL
Teacher perceptions of focused and	1	68% positive	85% positive
sustained action		•	•
Source: School Quality Survey, Spring 2003			
Teacher attitudes toward standard-	2	84% positive	95% positive
based education			
Source: School Quality Survey, Spring 2003			
Teacher perceptions of student safety	4	75% positive	95% positive
and well-being			
Source: School Quality Survey, Spring 2003			
Parent perceptions of student safety	4	55% positive	90% positive
and well-being		_	_
Source: School Quality Survey, Spring 2003			
Student perceptions of student safety	4	42% positive	90% positive
and well being	·	,, p	r
Source: School Quality Survey, Spring 2003			
Teacher perceptions of involvement	5	72% positive	90% positive
Source: School Quality Survey, Spring 2003		-	_
Parent perceptions of involvement	5	52% positive	80% positive
Source: School Quality Survey, Spring 2003		Î	_
Teacher perceptions of coordinated	6	69% positive	90% positive
team work		o y v positive	Joyepoul
Source: School Quality Survey, Spring 2003			
Teacher perceptions of	7,9	62% positive	85% positive
professionalism and capacity of	,	1	^
system			
Source: School Quality Survey, Spring 2003			
Alignment of school and staff to state	1, 8	Medium	High
and school education goals			
Source: HI DOE			
Curriculum alignment within	1, 8	Medium	High
buildings and across levels	, ·		
Source: III DOE Adequacy of professional	9	Medium	High
	,	Medium	l ingii
development program, participation			
in professional development			
Source: HI DOE		(50)	
Parent perceptions of professionalism	7, 9, 10	65% positive	85% positive
and capacity of system			
Source: School Quality Survey, Spring 2003			

ADEQUACY FACTORS	ADEQUACY GOAL	CURRENT LEVEL	ADEQUACY LEVEL
Student perceptions of	7, 9, 10	54% positive	85% positive
professionalism and capacity of		_	
system			
Source: School Quality Survey, Spring 2003			
Use of data systems by teachers to	11	Low	High
make instructional decisions about			
student learning needs			
Source: HI DOE			
Teacher perceptions of	7, 12	72% positive	90% positive
responsiveness of the system		_	
Source: School Quality Survey, Spring 2003			
Teacher satisfaction	1, 2, 3, 4, 5, 6	55% positive	80% positive
Source: School Quality Survey, Spring 2003			
Parent satisfaction	2, 3, 4, 10	56% positive	85% positive
Source: School Quality Survey, Spring 2003			
Student satisfaction	2, 3, 4, 10	46% positive	80% positive
Source: School Quality Survey, Spring 2003			

Table XVII: Adequacy Factors for High School

ADEQUACY FACTORS	ADEQUACY	CURRENT	ADEQUACY
· · · · · · · · · · · · · · · · · · ·	GOAL	LEVEL	LEVEL
Teacher perceptions of focused and	1	62% positive	80% positive
sustained action			
Source: School Quality Survey, Spring 2003			
Teacher attitudes toward standard-	2	80% positive	90% positive
based education			
Source: School Quality Survey, Spring 2003		(50/ ::	000/
Teacher perceptions of student	4	67% positive	90% positive
safety and well-being			
Source: School Quality Survey, Spring 2003			
Parent perceptions of student safety	4	49% positive	85% positive
and well-being			
Source: School Quality Survey, Spring 2003			
Student perceptions of student safety	4	42% positive	85% positive
and well-being		1	r
Source: School Quality Survey, Spring 2003			
Teacher perceptions of involvement	5	68% positive	85% positive
Source: School Quality Survey, Spring 2003			
Parent perceptions of involvement	-5	47% positive	75% positive
Source: School Quality Survey, Spring 2003			
Teacher perceptions of coordinated	6	66% positive	85% positive
team work		1	1
Source: School Quality Survey, Spring 2003			
Teacher perceptions of	7, 9	61% positive	85% positive
professionalism and capacity of			
system			
Source: School Quality Survey, Spring 2003			
Alignment of school and staff to state	1, 8	Medium	High
and school education goals			
Source: HI DOE	1 0	Medium	TT: 1
Curriculum alignment within	1, 8	Medium	High
buildings and across levels			
Source: HI DOE			
Adequacy of professional	9	Medium	High
development program, participation			
in professional development			
Source: HI DOE			
Parent perceptions of	7, 9, 10	49% positive	75% positive
professionalism and capacity of		-	_
system			
Source: School Quality Survey, Spring 2003			

ADEQUACY FACTORS	ADEQUACY GOAL	CURRENT LEVEL	ADEQUACY LEVEL
Student perceptions of	7, 9, 10	40% positive	80% positive
professionalism and capacity of		-	
system			
Source: School Quality Survey, Spring 2003			
Use of data systems by teachers to	11	Low	High
make instructional decisions about			
student learning needs			
Source: HI DOE			
Teacher perceptions of	7, 12	66% positive	85% positive
responsiveness of the system			
Source: School Quality Survey, Spring 2003			
Teacher satisfaction	1, 2, 3, 4, 5, 6	52% positive	80% positive
Source: School Quality Survey, Spring 2003			
Parent satisfaction	2, 3, 4, 10	53% positive	80% positive
Source: School Quality Survey, Spring 2003			
Student satisfaction	2, 3, 4, 10	38% positive	75% positive
Source: School Quality Survey, Spring 2003			

V. PHASED IMPLEMENTATION PLAN

Although the Adequate School models are designed in an integrated fashion so that the Adequacy Interventions support one another and create an effect that is likely to lead to greater learning collectively than individually, it is nevertheless possible to construct a scenario for implementing the Adequacy School models in phases. The advantages of doing so are that the costs are spread over a greater span of time and the schools themselves can incorporate the changes required by the various interventions sequentially instead of simultaneously, which can be advantageous.

Table XVIII: Elementary School Interventions – Phased Implementation

N (1)		PER	TOTAL PER PUPIL
YEAR	ADEQUACY INTERVENTION	PUPIL	PER YEAR
	Positive Behavioral Support (PBS) System (improve	£170	
	discipline, classroom management) Summer school with academic focus for bottom 40% each	\$178	
Year 1		Ø115	
	year (grades K-5)	\$115	
	Mentor teachers who are new to the profession	\$17	\$310
	Targeted reading and math programs using research-		
77 0	validated methods in grades 1-3	\$323	
Year 2	Teacher leadership development program (teaming,		
	instructional improvement)	\$57	\$380
	Increase tutoring in reading and math in grades 4-5	\$208	
Year 3	Instructional improvement coordinators to organize and		
	conduct professional development on a range of issues and		
	to coach teachers	\$116	\$324
	Computer-assisted instructional labs and workstations	\$158	
Year 4	Additional training for teachers to gain specific knowledge		
I CHI .	and skills that improve their ability to teach reading and		
	math to students not meeting standards	\$148	\$306
	Additional support for high-needs special education		
	students to meet NCLB standards	\$155	
Year 5	Intensive language acquisition programs for ESLL students		
	by reducing student-teacher ratio	\$58	\$212
	Sy 22222 State Consider Land	π - •	п
Pro-Rata	Program support cost to implement interventions	\$230	\$230
	Total	\$1,762	\$1,762

Table XIX: Middle School Interventions – Phased Implementation

YEAR	ADEQUACY INTERVENTION	PER PUPIL	TOTAL PER PUPIL PER YEAR
	Positive Behavioral Support (PBS) System (improve discipline, classroom management)	\$178	
Year 1	Mentor teachers who are new to the profession	\$17	
	Campus security increased to improve students' sense of safety and well-being	\$ 70	\$264
	Create "default core" curriculum into which all students are enrolled unless they opt out	\$266	
Year 2	Closely articulate middle school and high school mathematics curriculum, so that all students progress at an appropriate rate and that all are placed properly when they enter high school	\$34	
	Teacher leadership development program (teaming, instructional development)	\$27	\$327
	Reading program focused on informational texts (e.g., textbooks), charts, graphs, diagrams, data arrays, and reading across the curriculum	\$102	
	Instructional improvement coordinators to organize and conduct professional development on a range of issues and to coach teachers	\$100	
	Improve counseling services at the middle level to help diagnose students with out-of-classroom problems that are preventing them making adequate progress toward meeting standards	\$133	
	Small learning communities	\$38	\$373
Pro-Rata	Program support cost to implement interventions	\$145	\$14 5
	Total	\$1,109	\$1,109

Table XX: High School Interventions – Phased Implementation

YEAR	ADEQUACY INTERVENTION	PER PUPIL	TOTAL PER PUPIL PER YEAR
	Positive Behavioral Support (PBS) System (improve discipline, classroom management)	\$178	
Year 1	Campus security increased to improve students' sense of safety and well-being	\$63	
	Mentor teachers who are new to the profession	\$17	\$257
Year 2	Small learning communities, including career academies	\$279	
i ear z	Teacher leadership development program (teaming, instructional improvement)	\$24	\$303
	Instructional improvement coordinator to organize and conduct professional development on a range of issues and to coach teachers	\$116	
Year 3	Community-based internships and career clusters (student- run businesses, etc.)	\$60	
	Reading program focused on informational texts (e.g., textbooks), charts, graphs, diagrams, data arrays, and reading across the curriculum	\$ 137	\$313
	Increased student writing, including multiple 5-page research papers	\$50	
Year 4	Increased Advanced Placement enrollment and pass-rate on AP examinations	\$91	
	Postsecondary options and dual enrollment programs	\$39	\$180
Pro-Rata	Program support cost to implement interventions	\$ 158	\$1 58
	Total	\$1,210	\$1,210

Table XXI: System-level (DOE Central) Interventions – Phased Implementation

YEAR	ADEQUACY INTERVENTION	PER PUPII.	TOTAL PER PUPIL PER YEAR
Year 1	Assessment of data management system	\$10	
1 car 1	Identify areas of teacher shortages in high-priority academic areas	\$10	\$20
	Parent Community Networking Center expansion	\$8	
Year 2	Instructional Support System	\$2	
	Professional development for building-level administrators	\$4	\$14
	Total	\$34	\$34

VI. SPECIAL CASE OF COMBINED AND CHARTER SCHOOLS

Hawaii's Combined Schools and Charter Schools do not lend themselves well to the modeling approach that was used to develop the Baseline and Adequate School models. These schools not only do not conform consistently to a set of specified organizational structures, but they also vary greatly in size. As a result, it is not feasible to construct a "baseline" Combined or Charter School.

In School-Year 2003-2004 Combined Schools had the following configurations:

- Six K-12 schools with student enrollment ranging from 24 to 298 students
- Eight K-8 schools with student enrollment ranging from 110 to 520 students
- Seven 7-12 schools with student enrollment ranging from 77 to 1,653
- One Grade 3 school with student enrollment of 3

The costs of these schools are not directly incorporated into the Baseline Schools. The perpupil expenditures for Combined and Charter Schools students are multiplied by the number of students in these schools. This figure, when added to the amount of the Baseline Schools, yields the current State education budget.

In the Adequacy Model, Combined and Charter Schools can be accounted for in the following fashion:

- The students in the Combined and Charter Schools are apportioned appropriately across all grade levels and aggregated into groupings that mirror the three Adequate School models (K-5, 6-8, 9-12)
- The current cost-per-pupil in the Combined and Charter Schools is calculated and the percentage difference between this amount and the per-pupil amount for students in the Baseline Schools is computed
- The cost-per-pupil for each of the Adequacy Schools is established
- The number of students from the Combined and Charter Schools at each of the three Adequacy School levels is multiplied by the current cost-per-pupil and adjusted to take into account for any per-pupil cost differences identified in Step 2. This results in a 10.3% adjustment for Combined/Charter students in the elementary grades, no adjustment at the middle grades, and a 5.6% adjustment for Combined/Charter high school students
- The amounts generated in Step 4 are totaled and added to the total from the three Adequacy Schools. This yields the Adequate Schools total budget

VII. HOW TO USE THE MODELS

This model can be used primarily as a means to demonstrate better cause and effects among educational practices, their costs, and improved student learning. The model demonstrates how current educational practices can be augmented in ways that lead to better achievement of goals the state has established for education.

Limitations of the Model as Presented

The model is based upon the data that were available at the time of its creation. The better the data (level of detail) the stronger the relationship that can be modeled between inputs (dollars) and outputs (student learning).

Additional data need to be gathered, particularly in areas that define how efficiently the schools are functioning currently. In some cases, assumptions have been used because data were not available. The efficiency of operation directly affects the amount of money needed to achieve stated goals. With better data, it is possible to forecast with greater accuracy the dollar amounts necessary for an adequate education.

The cost estimates for each of the Adequacy Interventions were derived from actual costs of the intervention as implemented through best-practice models in schools. These costs have a contextual component to them, meaning that the precise costs of implementing each Adequacy Intervention in Hawaii schools may vary slightly from the stated costs, based on the specific context into which the intervention is implemented. If the implementation strategy differs from the one assumed for the interventions, the costs may differ from those stated.

Updating the Model - Why and How

The model needs to be updated regularly. Each year, new data need to be entered, and the adequacy interventions need to be reviewed. As researchers learn more about effective educational practices, new interventions may be devised.

A commission charged with overseeing the regular updating of the model is a useful structure to help ensure the model is not forgotten or not used. The commission should be composed of prominent citizens with an interest in education. Their participation also lends credibility to the Adequate School models and their recommended interventions. The commission should be assisted by staff members who arrange regular studies that gather the additional data needed to keep the model current.

The Model's Potential Effects on Educational Practices

The model does not require schools to adopt specific educational practices. Instead, it demonstrates that certain goals can be obtained if certain programs are implemented and schools operate efficiently and effectively with the resources provided. Schools, therefore, can review the model to help them compare their current structure (Baseline School models) and practices to those of the Adequate School models. Schools can also use the models as a tool to

measure their own budgeting practices. The models become reference points, idealized models which schools can be expected to strive toward. The models provide a measure of how schools could look and function at various levels of resourcing. This helps influence schools to improve their practices and adopt the most effective programs possible.

Additional Data Sources that may be considered in the Future

The model will benefit from additional, detailed data being collected in future years. Most importantly, there will be better information for the Adequacy Factors. These help determine how effectively schools are functioning, which is critical to understanding how well they are achieving their goals.

It is also important to collect information on student learning outcomes in relation to the stated education goals the model seeks to address. Some data exist currently from state tests, but more information will become available as federal testing requirements are implemented over the next few years. The state has an opportunity to use data on student academic performance to make closer connections between the way schools are organized and funded and the results that are achieved.

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DEFINING AN ADEQUATE EDUCATION FOR THE STATE OF HAWAII

Introduction

The purpose of this document is to integrate information from various sources in order to identify the key characteristics of an adequate education in the State of Hawaii. These sources include DOE's strategic plan and accountability framework as well as policy documents provided by the Board of Education, Act 51 and the Hawaii Revised Statutes.

We integrate information from the above sources to document the goals¹ of an adequate education in the State of Hawaii. The purpose of integrating and listing these goals in one place is (1) to outline the results that various stakeholders in the state education system are seeking to achieve from its schools, and (2) to help schools make better decisions about how to align, organize and conduct instruction effectively.

One-Six-Three: The foundation for an adequate education

DOE's "one-six-three combination" serves as the foundation for developing a framework of an adequate education in the State of Hawaii. Specifically,

- DOE pursues one vision the vision of the public school graduate
- DOE strives for six General Learner Outcomes (GLO) evidence that our students have become effective communicators, critical thinkers, producers of quality work, ethical users of technology, team players, and life-long learners
- DOE holds fast to three student priorities academic achievement, safety and wellbeing, and civic responsibility

The Vision of the Hawaii High School Graduate

All Hawaii public school graduates will:

- Realize their individual goals and aspirations
- Possess the attitude, knowledge and skills necessary to compete and positively contribute in the global society
- Exercise the rights and responsibilities of citizenship, and
- Pursue post-secondary education and/or careers without the need for remediation

¹ It is important to note that this document integrates policy statements contained in various documents; it is not an effort to define new goals or direction for the DOE

Goals

DOE has set four key goals to accomplish the above vision. Policy statements from various DOE sources that support these goals are listed below.

Provide a standards-based education for every child

- O Systematically develops student mastery of fundamental academic skills, including literacy and numeracy, so that all students reach high levels of performance, the purpose of which is to close the gap in achievement between different racial and economic groups (policy goal #6; please see pages 7-8 of the reference guide)
- O Exposes students to a broad body of knowledge and comprehensive set of skills that support lifelong learning, effective decision-making, self-awareness, and higher order thinking (policy goal #7; please see pages 7-8 of the reference guide)

Sustain comprehensive support for all students

- Offers students an equal educational opportunity to enroll in programs regardless of race, color, religion, sex, sexual orientation, disabilities, or national origin (policy goal #1; please see pages 7-8 of the reference guide)
- O Built upon a partnership among highly-qualified professional educators, parents, and community members who work together for student success (policy goal #3; please see pages 7-8 of the reference guide)
- O Enables all students to participate fully in a democratic society and productively in a market economy (policy goal #4; please see pages 7-8 of the reference guide)
- o Equips all students to function effectively in today's pluralistic society (policy goal #5; please see pages 7-8 of the reference guide)
- Offers a comprehensive curriculum to all students built around a core that includes English language arts, sciences, mathematics, social studies, fine arts, health and fitness, world languages, and home and work skills (policy goal #8; please see pages 7-8 of the reference guide)
- O Allows students to move continuously and seamlessly from entry into preschool to a successful transition to high school (policy goal #10; please see pages 7-8 of the reference guide)
- O Serves as the primary means for students who arrive from other nations to make a successful transition to the American educational system and culture (policy goal #11; please see pages 7-8 of the reference guide)
- o Addresses the special needs of students who face educational challenges (policy goal #12; please see pages 7-8 of the reference guide)

Deliver coordinated, systemic support for staff and schools

- O Ensures student safety and well being within environments that have adequate facilities, equipment, books, and other learning resources (policy goal #9; please see pages 7-8 of the reference guide)
- O Engages parents and the community as full partners in the student's learning process (policy goal #13; please see pages 7-8 of the reference guide)

Achieve and sustain continuous improvement of student performance, professional, school, and system quality

- O Transmits the most important elements of the diverse cultures that make up the State while simultaneously advancing the endowment of those cultures for the benefit of subsequent generations of students and society at large (policy goal #2; please see pages 7-8 of the reference guide)
- O Promotes continuous improvements in student learning through researchbased practices, site-based decision-making, and public accountability (policy goal #14; please see pages 7-8 of the reference guide)

Exhibit

Supporting Policy Statements

The following policy statements contain language that supports different aspects of the goals discussed in (IV) above. In most cases, the goal components can be traced directly back to these policy statements.

Goal Component	Source
PHILOSOPHY OF EDUCATION - HAWAII'S PUBLIC SCHOOLS' POLICY The Premise: A democratic society is dependent upon the free, full growth of individuals who will participate in the creation and development of the institutions in that society. The institution of government is founded on a secular base, which allows and encourages the development of a pluralistic society that contains many cultures within that society.	BOE Policy on Philosophy of Education
Education and the Need for Education: Individuals need to develop their personal potentials to participate fully in a democratic, multicultural society. Education is the process which allows individuals to become citizens who have positive attitudes toward learning and inquiry, who communicate effectively, and who are guided in making choices based on critically determined and commonly shared values. The preservation, promotion, and improvement of a democratic, multicultural society requires the formal schooling of its children, youth and adults.	
Scope: The State of Hawaii shall provide a public school system with a scope of curricular and instructional programs from pre-school to high school for children, youth and adults. Such programs shall be simultaneously intellectual, aesthetic, and practical, with instructional practices which insure that learners acquire the knowledge relevant to living in the present as well as the arts and skills required for living in the future. All programs shall derive from a curriculum which must include English language arts, sciences, mathematics, social studies, fine arts, health and fitness, world languages, and home and work skills, and all other support services necessary for implementation.	
Equal Educational Opportunity: Students shall have an equal educational opportunity to enroll in programs regardless of race, color, religion, sex, sexual orientation, disabilities, or national origin	
 education must do no less than advance the endowment of human culture itself, so that each succeeding generation finds itself further along the road towards peace, social justice, and environmental sustainability in a society guided by creativity, compassion, and curiosity 	Act 51, Section 1
The legislature has supported and will continue to support	Act 51, Section 1

efforts by the department of education to improve Hawaii's schools as a means of enhancing the academic achievement, safety and well-being, and civic commitment of students, to meet the evolving needs of today's communities **All public school graduates will:* • Realize their goals and aspirations • Have attitudes, knowledge and skills to compete and positively contribute in a global society • Exercise rights and responsibilities of citizenship • Pursue higher education or careers without need for remediation	DOE Strategic Plan
 There are six General Learner Outcomes (GLO): Ability to be responsible for one's own learning Ability to be involved in complex thinking and problem solving Ability to recognize quality performance and produce quality products Ability to communicate effectively Ability to use a variety of technologies effectively and ethically Ability to work well with others 	DOE Strategic Plan
 Components of the curriculum: Language arts Educational technology Mathematics 	DOE Strategic Plan
 Fine arts Science Health Social studies Physical education Career and life skills World languages 	

working partnership betw child's physical, emotiona provides a secure, suppor	-a two-fold priority: (1) promotes a veen school and home to nurture every al, and social well being, and (2) rive learning environment with ment, books, and other learning	
 attaining proficiency in re All limited-English-profice English and reach high ac By 2006, all students will 	be taught by highly qualified teachers ted in safe, drug-free, and conducive- d schools	DOE Strategic Plan
greater authority, decision funds • Streamlining—schools wire easily as the result of reduce of facilities, repair and managersonnel • Accountability—school results of the school results of the sc	als and school communities have al-making ability, and more control over all receive resources more quickly and action of red tape, and internal control intenance, and hiring of civil service apport cards and performance contracts antability for student achievement	DOE Strategic Plan